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* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                   (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  5  FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02   GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22   PATDPASPC - New patent database available
 NEWS  13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04   EPFULL enhanced with additional patent information and new
                   fields
 NEWS  15 APR 04   EMBASE - Database reloaded and enhanced

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 07:56:30 ON 14 APR 2005

=> fil ca; act a658811a1/a
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1  (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L2  (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L3  (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L4  (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L5  (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L6  (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L7  (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L8  (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L9  (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L10 (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L11 (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L1 OR 88-12-0/C
L12 (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L2 OR 106-91-2
L13 (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L14 (     17116)SEA FILE=REGISTRY L13 AND L11 AND L12 AND PMS/CI
L15 (     14247)SEA FILE=CA L14
L16          80 SEA FILE=CA L15 (P) (BINDER OR RESIN) AND TONER

=> act a658811/a
L17 (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L18 (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L19 (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L20 (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L21 (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L22 (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L23 (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L24 (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L25 (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L26 (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L27 (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L17 OR 88-12-0/
L28 (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L18 OR 106-91-
L29 (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L30 (     17116)SEA FILE=REGISTRY L29 AND L27 AND L28 AND PMS/CI
L31       14247 SEA FILE=CA L30

=> s l31 and (glycidyl or epoxy or oxirane)
         40595 GLYCIDYL
        214571 EPOXY
         17555 OXIRANE
L32       3617 L31 AND (GLYCIDYL OR EPOXY OR OXIRANE)

=> s l32 and toner
         29950 TONER
L33         84 L32 AND TONER

=> s l33 not (liquid (2w) (toner# or develop?))
        630916 LIQUID
         31322 TONER#
       2022478 DEVELOP?
```

```
          2655 LIQUID (2W) (TONER# OR DEVELOP?)
L34         48 L33 NOT (LIQUID (2W) (TONER# OR DEVELOP?))

=> s l34 and electrophotog?
         63903 ELECTROPHOTOG?
L35         44 L34 AND ELECTROPHOTOG?

=> d fbib kwic 30-44; fil stnguide

L35  ANSWER 30 OF 44  CA  COPYRIGHT 2005 ACS on STN
Full Text
AN   120:334854  CA
TI   Electrophotographic color transfer imaging method
IN   Kato, Eiichi; Oosawa, Sadao
PA   Fuji Photo Film Co Ltd, Japan
SO   Jpn. Kokai Tokkyo Koho, 63 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    --------------------     --------
PI   JP 05181324          A2    19930723    JP 1991-358228           19911227
     JP 3180967           B2    20010703
     DE 4294542           T     19941201    DE 1992-4294542          19921225
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
     US 6004716           A     19991221    US 1994-256185           19940627
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
PATENT FAMILY INFORMATION:
FAN  121:121637
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ---------------     ----   --------    --------------------     --------
PI   JP 05181325          A2    19930723    JP 1991-358232           19911227
     DE 4294542           T     19941201    DE 1992-4294542          19921225
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
     US 6004716           A     19991221    US 1994-256185           19940627
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
TI   Electrophotographic color transfer imaging method
AB   In an electrophotog. transfer imaging method utilizing an
     electrophotog. photoreceptor, a means for electrophotog. producing a
     color toner image on a transfer layer present on the electrophotog.
     photoreceptor, and a means for thermally transferring the toner image
     -bearing transfer layer to a receptor sheet, the photoreceptor has a
     surface layer based on either a polymer component contg. Si and(or) F or
     amorphous Si, and the above transferable layer is obtained by
     electrocoating the photoreceptor surface with particles of a thermoplastic
     resin to effect film formation.  Since the toner image transfer is
     effected following wet development by transferring the toner image
     intact with the transfer layer, precise high quality images can be
     obtained free of color slippage.
ST   electrophotog color transfer imaging; photoreceptor electrophotog
     surface layer
IT   Electrophotographic photoconductors and photoreceptors
        (for transferable toner image formation)
```

IT **Electrophotography**, color
(transfer, peelable transfer film using)
IT 9011-14-7D, Methyl methacrylate homopolymer, copolymer with dimethylsiloxane macromonomer
RL: USES (Uses)
(**electrophotog**. photoreceptor surface layer contg.)
IT 79-41-4DP, fluoroalkyl ester, block copolymer with Et and **glycidyl** methacrylates 97-63-2DP, Ethyl methacrylate, block copolymer with **glycidyl** and fluoroalkyl methacrylates 106-91-2DP, block copolymer with Et and fluoroalkyl methacrylates 26936-24-3DP, Methacrylic acidmethyl acrylatemethyl methacrylate copolymer, methylsiloxy-terminated 144541-84-4P 150624-67-2P 150625-19-7P 150642-22-1P 155292-83-4P 155292-84-5P 155292-85-6P 155292-86-7P 155292-87-8P 155292-88-9P 155292-90-3P 155292-91-4P 155292-92-5P 155292-93-6P 155292-94-7P 155293-26-8P
RL: PREP (Preparation)
(prepn. of, surface layer for **electrophotog**. photoreceptor contg.)
IT 144541-84-4P 150625-01-7P 150625-03-9P 150625-22-2P 150642-24-3P 155292-96-9P 155292-98-1P
RL: PREP (Preparation)
(prepn. of,surface layer material for **electrophotog**. photoreceptor)
IT 155292-99-2 155293-00-8 155293-01-9 155293-02-0 155293-03-1 155293-05-3 155293-06-4 155293-07-5 155293-08-6 155293-10-0 155293-11-1 155293-13-3 **155293-15-5** 155293-16-6 155293-18-8 155293-19-9 155293-20-2 155293-22-4 155293-23-5 155293-24-6 155293-27-9 155330-29-3
RL: USES (Uses)
(resin particles, **electrophotog**. photoreceptor surface layer contg.)
IT 150624-89-8
RL: USES (Uses)
(star, dithiocarbamate-initiated,**electrophotog**. photoreceptor surface layer contg.)
IT 9004-48-2 9015-12-7, Cellidor Bsp 25068-26-2, 4-Methylpentene homopolymer 27043-73-8, Poly(decamethylene terephthalate) 27055-32-9, Poly(decamethylene terephthalate) 59199-92-7, Poly(decamethylene isophthalate) 66837-11-4, Poly(pentamethylene carbonate)
RL: USES (Uses)
(thermoplastic resin, **electrophotog**. photoreceptor surface layer from)

L35 ANSWER 31 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 118:180089 CA
TI Blanks for **electrophotographic** platemaking
IN Kato, Eiichi; Osawa, Sadao
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 35 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04204739	A2	19920727	JP 1990-336806	19901130
			JP 1990-336806	19901130

TI Blanks for **electrophotographic** platemaking
AB In the title blank for **electrophotog**. platemaking comprising an elec. conductive support coated with a photoconductive layer composed of a photoconductor and a binder resin and used to prep. a printing plate by

developing an **electrophotog**. **toner** image and removing the photoconductor layer from the nonimage-bearing regions, the above binder is a graft copolymer (wt. av. mol. wt. 1 × 103-1 × 105). The above graft copolymer is obtained from a monofunctional macromonomer (wt. av. mol. wt. ≤2 × 104) having at 1 end only of the polymer chain the structural component CHa1:Ca2A° [A° = CO2, OCO, CH2O, CO, CH2CO2, O, SO2, CO, CONHCO, CONHCONH, CONHCONH, etc.; a1, a2 = H, halo, CN, hydrocarbon moiety, CO2D1, hydrocarbon interposed CO2D1 (D1 = H, hydrocarbon moiety)] and contg. CHb1Cb2(A1-B°) or CHb1Cb2B1 [A1 = same as A° above; B° = C1-18 aliph. or C6-12 arom.; b1, b2 = same as a1, a2 above; B1 = CN, CONH2, substituted phenyl], and ≥1 acid group selected from acid anhydride-contg. groups as members of the main polymer chain. The above macromonomer is allowed to react with CHc1:ML2(A2-B2) [A2 = same as A1 above; B2 = same as B° above; c1, c2 = same as a1, a2 above] and a monofunctional monomer contg. PO3H2, SO3H, CO2H, phenolic OH, P(O)(OH)R° (R° = hydrocarbon or oxyhydrocarbon), or cyclic acid anhydride to obtain the above graft copolymer binder resin. The blank shows superior optical response and gives printing plates with good printing characteristics.

ST **electrophotog** printing plate blanks binder; acrylic binder **electrophotog** printing plate

IT Acrylic polymers, uses
RL: USES (Uses)
(binder resin, for **electrophotog**. printing plates)

IT Printing plates
(manuf. of, **electrophotog**. blanks for, acrylic binder for)

IT **146878-67-3P** 146878-68-4P 146878-69-5P 146925-48-6P
RL: PREP (Preparation)
(prepn. of, as binder resin for **electrophotog**. printing plate)

IT 139676-55-4DP, Benzyl methacrylate-2-(phosphonooxy)ethyl methacrylate telomer with 2-aminoethylmercaptan, acrylamide 139711-59-4DP, carboxy-terminated, ester with **glycidyl** methacrylate, photolysis product 141348-47-2P 141348-87-0P, Ethylmethacrylate-2-hydroxyethylmethacrylate telomer with thioglycolic acid 2-hydroxy-3-methacryloyloxypropyl ester 147013-21-6DP, hydrolysis product
RL: PREP (Preparation)
(prepn. of, as macromonomer)

L35 ANSWER 32 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 118:103762 CA

TI Dispersions of acrylate polymers in nonaqueous solvents and their manufacture

IN Emoto, Shigeru

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04198351	A2	19920717	JP 1990-326296	19901128
				JP 1990-326296	19901128

AB The title dispersions, having good storage stability and useful in the prepn. of **electrophotog**. toners, coatings compns., etc., comprise copolymers of monomers H2C:CR1X (R1 = H, Me; X = O2CR2, CO2R2; R2 = C6-20 alkyl), unsatd. monomers contg. **glycidyl** and carboxy groups, and, optionally, alkenyl (meth)acrylates dispersed in aliph. hydrocarbon and/or silicone oils. Reacting pyridine with an allyl methacrylate-Et

methacrylate-**glycidyl** methacrylate-methacrylic acid-stearyl methacrylate graft copolymer in isodecane gave a dispersion (av. particle size 0.1-0.15 μm) which was used with carbon black in an **electrophotog. toner**.

ST methacrylate copolymer nonaq dispersion; allyl methacrylate copolymer dispersion; **glycidyl** methacrylate copolymer dispersion; methacrylic acid copolymer dispersion; acrylate copolymer nonaq dispersion; **electrophotog toner** polyacrylate nonaq dispersion; coating polyacrylate nonaq dispersion

IT Polymerization
(dispersion, of (meth)acrylates in nonaq. solvents, for **electrophotog.** toners and coatings)

IT **Electrophotographic** developers
(toners, acrylate polymer dispersions in nonaq. solvents for)

IT 63832-50-8D, reaction products with pyridine 146163-79-3D, reaction products with pyridine 146163-80-6D, reaction products with pyridine **146226-84-8D**, reaction products with pyridine
RL: PROC (Process)
(dispersion of, in nonaq. solvent, for **electrophotog. toner**)

L35 ANSWER 33 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 115:82205 CA
TI A resin composition for toners and a **toner** containing the same
IN Matusunaga, Takayosi; Tanaka, Susumu; Kosaka, Yoshiyuki; Suzuki, Tatsuo; Okudo, Masazumi
PA Sekisui Chemical Co. Ltd., Japan
SO Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 412712	A1	19910213	EP 1990-308444		19900731
	EP 412712	B1	19950628			
	R: DE, FR, GB					
				JP 1989-199549	A	19890731
				JP 1989-199550	A	19890731
				JP 1989-199551	A	19890731
				JP 1989-255819	A	19890930
				JP 1989-340467	A	19891226
	JP 03063661	A2	19910319	JP 1989-199549		19890731
	JP 2770991	B2	19980702			
	JP 03063662	A2	19910319	JP 1989-199550		19890731
	JP 03063663	A2	19910319	JP 1989-199551		19890731
	JP 2510291	B2	19960626			
	JP 03118552	A2	19910521	JP 1989-255819		19890930
	JP 2578218	B2	19970205			
	JP 03197969	A2	19910829	JP 1989-340467		19891226
	JP 2578230	B2	19970205			
	CA 2022283	AA	19910201	CA 1990-2022283		19900730
				JP 1989-199549	A	19890731
				JP 1989-199550	A	19890731
				JP 1989-199551	A	19890731
				JP 1989-255819	A	19890930
				JP 1989-340467	A	19891226
	US 5262265	A	19931116	US 1993-2101		19930108
				JP 1989-199549	A	19890731
				JP 1989-199550	A	19890731
				JP 1989-199551	A	19890731
				JP 1989-255819	A	19890930
				JP 1989-340467	A	19891226

				US 1990-559286	B1 19900730
US 5492787	A	19960220	US 1995-384806		19950206
			JP 1989-199549	A	19890731
			JP 1989-199550	A	19890731
			JP 1989-199551	A	19890731
			JP 1989-255819	A	19890930
			JP 1989-340467	A	19891226
			US 1990-559286	B1	19900730
			US 1993-2101	A3	19930108
			US 1993-101785	B1	19930803

TI A resin composition for toners and a **toner** containing the same

AB An electrostatog. **toner** compn. is described comprising a blend of resins contg.: (1) a resin obtained by reaction of a metal compd. with a copolymer of styrene, (meth)acrylic ester, and a carboxyl group-contg. vinyl compd.; (2) a copolymer of a vinyl compd. contg. **glycidyl** or β-methylglycidyl group and another vinyl compd.; and optionally (3) styrene-(meth)acrylic ester copolymer. The **toner** has excellent offset-resistance characteristics over a wide range of mixing temps., among other properties.

ST electrostatog **toner** resin blend; offset resistant **toner electrophotog**

IT **Electrophotographic** developers
(toners, resin blend for)

IT 62-54-4D, Calcium acetate, reaction product with acrylic polymer 1309-48-4D, Magnesium oxide (MgO), reaction product with acrylic polymer 1314-13-2D, Zinc oxide (ZnO), reaction product with acrylic polymer 25036-16-2D, reaction product with magnesium oxide 25167-42-4 25213-39-2 25586-20-3D, reaction product with magnesium oxide 25609-90-9D, reaction product with calcium acetate 25609-90-9D, reaction product with magnesium oxide 25767-47-9 **25987-66-0D**, reaction product with zinc oxide 26374-92-5 26428-43-3 27136-15-8 **27306-39-4D**, reaction product with calcium acetate **27306-39-4D**, reaction product with zinc oxide 52660-53-4 55492-07-4 58048-89-8D, reaction product with zinc oxide 103332-15-6D, reaction product with calcium acetate or zinc oxide 103332-15-6D, reaction product with magnesium oxide **135244-30-3D**, reaction product with magnesium oxide 135244-31-4D, reaction product with calcium acetate or zinc oxide 135244-32-5
RL: USES (Uses)
(**toner** compn. with resin blend contg.)

L35 ANSWER 34 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 112:149087 CA

TI **Electrophotographic** material for lithographic plate preparation

IN Kato, Eiichi; Ishii, Kazuo

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 40 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 333415	A2	19890920	EP 1989-302462	19890314
	EP 333415	A3	19910703		
	EP 333415	B1	19930922		
	R: DE, GB				
				JP 1988-58256 A	19880314
				JP 1988-88917 A	19880413
	JP 01232356	A2	19890918	JP 1988-58256	19880314
	JP 07101322	B4	19951101		
	JP 01261657	A2	19891018	JP 1988-88917	19880413

JP 07101323	B4	19951101			
US 5053301	A	19911001	US 1989-322965		19890314
			JP 1988-58256	A	19880314
			JP 1988-88917	A	19880413

TI **Electrophotographic** material for lithographic plate preparation

AB An **electrophotog**. material suited for lithog. plate prepn. comprises an elec. conductive support and ≥1 photoconductive layer contg. photoconductive ZnO particles, a binder resin selected from alkyd resin, silicone resins, **epoxy** resins, polyesters, poly(vinyl butyrals), methacrylate copolymers, acrylate copolymers, and vinyl acetate polymer, and natural or synthetic hydrophilic resin grains having an av. grain diam. which is the same as or smaller than the max. grain diam. of the ZnO particles. The **electrophotog**. material is processed by an automatic printing plate-making machine to form a **toner** image and treated with an oil-desensitizing soln. for rendering hydrophilic the nonimage area to give a lithog. plate which provides prints of good image quality, particularly free background stains, from the start of printing, thus reducing loss of prints.

ST **electrophotog** material lithog plate prepn; zinc oxide **electrophotog** lithog plate; hydrophilic resin **electrophotog** lithog plate

IT **Electrophotographic** photoconductors
(contg. zinc oxide and binder resins and hydrophilic resin grains for lithog. plate prepn.)

IT Lithographic plates
(zinc oxide **electrophotog**. compns. contg. hydrophilic resin grains for prepn. of)

IT 1314-13-2, Zinc oxide, uses and miscellaneous
RL: USES (Uses)
(**electrophotog**. materials contg. hydrophilic resin grains and, for lithog. plate prepn.)

IT 9003-01-4, Polyacrylic acid 9003-04-7 9046-31-5 9086-70-8 25322-68-3 28062-47-7 37291-07-9D, Starch-acrylonitrile copolymer, sapond. 57486-24-5, Aquaprene L 710 105187-85-7, KI Gel 201K 108688-17-1, Sumikagel SP 510
RL: USES (Uses)
(zinc oxide **electrophotog**. compns. contg., for prepn. of lithog. plates)

IT 25213-24-5 25704-18-1 27756-39-4 28062-60-4 29960-84-7 31212-98-3 51131-63-6 55031-97-5 107052-85-7 124919-84-2 125052-36-0 **125120-19-6** **125120-20-9** 125120-21-0 125120-23-2 125120-25-4 125120-26-5 125120-27-6 125120-29-8 125120-66-3 125193-75-1 125193-77-3 127006-47-7
RL: USES (Uses)
(zinc oxide **electrophotog**. materials contg., for lithog. plate prepn.)

L35 ANSWER 35 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 111:15320 CA

TI Electrostatographic **toner**

IN Higashida, Osamu; Moribe, Isamu; Kumagai, Yugo

PA Hitachi Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63309968	A2	19881219	JP 1987-145760	19870611
			JP 1987-145760	19870611

TI Electrostatographic **toner**

AB Polymer particles, obtained by suspension-polymn. of a mixt. of 80-99 parts% monofunctional monomer and 1-20 parts% crosslinking agent, constitute 1-20% of the title **toner**. The **toner** has good fixability and antioffset property. Thus, a nonaq. dispersing agent was prepd. contg. nonvolatile component 30%. A mixt. of n-hexane 300, Et acrylate 28.8, ethylene glycol dimethacrylate 1.2, and the above soln. of dispersing agent 10 parts was heated in presence of 2,2'-azobis(2,4-dimethylvaleronitrile) under stirring to obtain a dispersion of polymer particles. This dispersion was added with a 8:2 styrene-Bu acrylate monomer mixt. Then, this dispersion was suspension-polymd. in water contg. poly(vinyl alc.), and the product was melt-blended with C black, Nigrosine dye, and polypropylene to obtain **toner** particles of 15-μm av. diam. The **toner** was mixed with Fe oxide carrier and used for **electrophotog**. copying. Min. fixing temp. was 130°, and the highest non-offset temp. was 140°.

ST **electrophotog toner** suspension polymd particles

IT Dispersing agents
(polymer, crosslinked, for suspension-polymn. in nonaq. media, in manuf. of electrostatog. **toner**)

IT **Electrophotographic** developers
(toners, suspension-polymd. polymer particles in, for improved fixability and offset property)

IT **25101-94-4**, **Glycidyl** methacrylate-12-hydroxystearic acid-methacrylic acid-methyl methacrylate copolymer
RL: USES (Uses)
(dispersing agent, for suspension-polymn. in nonaq. media, in manuf. of electrostatog. **toner**)

IT 90837-33-5, Butyl acrylate-ethyl acrylate-ethylene glycol dimethacrylate-styrene copolymer 121177-92-2
RL: TEM (Technical or engineered material use); USES (Uses)
(electrostatog. **toner** contg., for improved fixability and offset property)

L35 ANSWER 36 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 109:46137 CA

TI Developer-replenisher material for imaging device

IN Kurotori, Tsuneo; Mochizuki, Manabu; Ariyama, Kenzo; Kuramoto, Shinichi; Sugiyama, Yoshihiro; Takanashi, Hajime; Ishizuka, Takashi; Kudo, Yoshio; Sato, Yoshio

PA Ricoh Co., Ltd., Japan

SO Ger. Offen., 30 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 3725002	A1	19880204	DE 1987-3725002		19870728
	DE 3725002	C2	19980430			
				JP 1986-177073	A	19860728
				JP 1986-177074	A	19860728
				JP 1986-232722	A	19860929
				JP 1986-255354	A	19861027
				JP 1986-255355	A	19861027
				JP 1986-255356	A	19861027
	JP 63085570	A2	19880416	JP 1986-232722		19860929
	GB 2194644	A1	19880309	GB 1987-17956		19870728
	GB 2194644	B2	19901219			
				JP 1986-177073	A	19860728
				JP 1986-177074	A	19860728
				JP 1986-232722	A	19860929

JP 1986-255354 A 19861027
JP 1986-255355 A 19861027
JP 1986-255356 A 19861027

AB Developer-replenisher materials for use in electrostatic copying devices are composed of a carrier liq., mainly consisting of an aliph. hydrocarbon, 1000 and **toner** particles, mainly consisting of a binder resin and a pigment, 200-1200 parts. Thus, a typical developer replenisher contained a 2-hydroxyethyl methacrylate-methacrylic acid-Me methacrylate-stearyl methacrylate copolymer, Printex U (C black), Tescon MRP (a natural resin-modified maleic acid), 171P (polyethylene), and Isopar H.

ST electrostatog liq developer replenisher; **electrophotog** liq developer replenisher; electrog liq developer replenisher

IT **Epoxy** resins, uses and miscellaneous
Phenolic resins, uses and miscellaneous
RL: USES (Uses)
(rosin-modified, electrostatog. liq. developer replenisher contg.)

IT **Electrophotographic** developers
(liq., replenisher for)

IT **Electrophotographic** development
(liq., replenishment in, app. for)

IT 110-16-7D, 2-Butenedioic acid (Z)-, polymers, rosin-modified 115-77-5D, Pentaerythritol, polymers, rosin-modified 147-14-8 522-75-8, Thioindigo 846-70-8, Naphthol yellow S 1229-55-6 1248-18-6, Lithol Red 1325-82-2 1328-53-6, C.I. Pigment Green 7 1836-22-2 2092-56-0 2425-85-6, Permanent Red 4R 2512-29-0, Hansa Yellow 3564-21-4, Permanent Red F5R 5281-04-9 6358-85-6, Benzidine Yellow 6372-81-2, Lake Red D 6417-83-0, Bordeaux 10B 6448-95-9, Brilliant Fast Scarlet 6548-12-5, Peacock blue lake 8033-42-9, Wax A 9002-88-4, DYNK 9002-88-4, Epolene N 45 9003-07-0, Polypropylene 10279-68-2, Naphthol green Y 12634-23-0, Epolene E 14 19381-50-1, Naphthol green B **25068-63-7**, **Glycidyl** methacrylate-lauryl methacrylate-methacrylic acid-methyl methacrylate copolymer 26635-64-3, Isooctane 34464-38-5, Isodecane 60382-94-7, 4202E 61725-50-6, Malachite green lake 62610-51-9, Epolene E 15 66813-77-2, Sanwax E 300 68651-46-7, Indigo (dye) 70777-49-0, 4053E 82446-67-1, PED136 82446-73-9, E 2018 90327-88-1, Rhodamine lake 91261-68-6, Tescon MRP 91316-55-1, OA wax 92881-18-0, PED521 92881-19-1, PED522 95078-70-9, PED153 **97947-61-0**, Acrylic acid-**glycidyl** methacrylate-lauryl methacrylate-methyl methacrylate copolymer **101702-71-0**, Acrylic acid-2-hydroxyethyl methacrylate-lauryl methacrylate-methyl methacrylate copolymer 110119-84-1, E 2020 111068-86-1, PED534 **113989-07-4**, 2-Hydroxyethyl methacrylate-methacrylic acid-methyl methacrylate-stearyl methacrylate copolymer 113989-08-5 114013-32-0, Alathon 12 114013-33-1, Alathon 16 114013-34-2, Alathon 22 114013-35-3, Alathon 23 114013-38-6, Bareco 2000 114013-51-3, E 1040 114013-54-6, Epolene E 11 114013-61-5, Isosol 400 114013-62-6, Lithol Fast Yellow 2G 114013-67-1, PE580
RL: USES (Uses)
(electrostatog. liq. developer replenisher contg.)

L35 ANSWER 37 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 106:166178 CA
TI Nonaqueous resin dispersions and their use in **electrophotographic** developers
IN Tsubuko, Kazuo; Kuramoto, Shinichi; Nagai, Kayoko; Okawara, Makoto; Takanashi, Hajime
PA Ricoh Co., Ltd., Japan
SO Ger. Offen., 11 pp.
CODEN: GWXXBX

DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3624209	A1	19870122	DE 1986-3624209	19860717
	DE 3624209	C2	19890503		
				JP 1985-157912 A	19850717
				JP 1985-157913 A	19850717
	JP 62018410	A2	19870127	JP 1985-157912	19850717
	JP 62018572	A2	19870127	JP 1985-157913	19850717
	JP 07013766	B4	19950215		
	US 4764447	A	19880816	US 1986-883182	19860708
				JP 1985-157912 A	19850717
				JP 1985-157913 A	19850717
	GB 2178048	A1	19870204	GB 1986-17468	19860717
	GB 2178048	B2	19890802		
				JP 1985-157912 A	19850717
				JP 1985-157913 A	19850717

TI Nonaqueous resin dispersions and their use in **electrophotographic** developers

AB A nonaq. resin dispersion is obtained by polymn. of a compn. contg. ≥1 monomer (A) of the formula H2C:CRR1 (R = H or Me; R1 = CO2CnH2n+1 or OCOCnH2n+1 where n = 6-20), a monomer (B) of formula H2C:CR2CO2CmH2mCR3:CH2 (R2, R3 = H or Me; m = 1-20), and a monomer (C) with a carboxyl or **glycidyl** group in the presence of a polymn. initiator in an aliph. hydrocarbon solvent. A lauryl methacrylate-H2C:CHCO2CH2CH:CH2-methacrylic acid copolymer dispersion, prepd. by polymn. of the monomers in the presence of azobisisobutyronitrile in kerosine, C black, and kerosine were milled together to give a **toner** conc. which was then dild. with kerosine to produce a liq. electrostatog. developer capable of producing a great no. of excellent copies.

ST nonaq resin dispersion electrostatog developer; **electrophotog** liq developer resin dispersion

IT **Electrophotographic** developers
(liq., nonaq. resin dispersions for)

IT 7631-86-9, Silicon dioxide, uses and miscellaneous 107685-77-8 **107685-79-0** 107685-80-3 107685-81-4 107685-82-5
RL: USES (Uses)
(electrostatog. liq. developers contg. nonaq. dispersions of)

IT 107685-78-9P **107685-84-7P 107685-85-8P** 107685-87-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L35 ANSWER 38 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 103:203744 CA
TI **Electrophotographic toner**
IN Kori, Shuntaro
PA Minolta Camera Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60142353	A2	19850727	JP 1983-246468	19831229
				JP 1983-246468	19831229

TI **Electrophotographic toner**

AB In the title **toner** contg. a coloring agent and a thermoplastic polymer the thermoplastic polymer is a homopolymer or a copolymer composed of

≥1 monomeric unit of the formula -CH2C(R1)CO2R2- (R1 = H, Me; R2 = H, C<3 alkyl, hydroxyalkyl, aminoalkyl, **glycidyl**) or a copolymer of the above monomeric unit with another monomeric unit of the formula I (R3 = H, Me) which is a random copolymer contg. <50 wt.% of the monomer unit I. The above homopolymer or copolymer has on its side chain ≥1 of carboxyl, amino, OH, and **glycidyl** functional groups and a no. av. mol. wt. of 9000-30,000.

ST **electrophotog toner** thermoplastic vinyl polymer

IT Vinyl compounds, polymers
RL: USES (Uses)
(polymers, thermoplastic, **electrophotog**. toners contg.)

IT 42751-74-6 88801-59-6 **99146-41-5** 99146-42-6 99146-43-7
99146-44-8 99146-45-9
RL: USES (Uses)
(thermoplastic, **electrophotog**. toners contg.)

L35 ANSWER 39 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 96:26839 CA
TI Electrostatographic toners
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 56080055	A2	19810701	JP 1979-157807	19791204
JP 63050699	B4	19881011		
			JP 1979-157807 A	19791204

AB A water-contg. pigment cake is mixed with a soln. (in org. solvent) of a copolymer of CH2:CRCO2R1 (R = H, Me; R1 = C1-4 alkyl) and ≥1 monomer selected from unsatd. carboxylic acids, their anhydrides, **glycidyl** methacrylate, and **glycidyl** acrylate, and the water and the org. solvent are removed from the mixt. to give electrostatog. toners. Thus, H2O 500,, carbon black 50, and Alkali Blue 20 g were mixed, and an acrylic acid-Me methacrylate copolymer soln. (31.6% solids) 600 g was added to the mixt. The resultant mixt. was dried, and the residue was pulverized to give neg.-charging type electrostatog. toners.

ST **electrophotog toner** binder resin; electrostatog **toner** acrylic binder resin

IT 147-14-8 1328-53-6 5281-04-9 6548-12-5 25322-25-2
28262-63-7 39464-61-4 40081-37-6 40111-87-3 68993-80-6
80337-97-9 80337-98-0
RL: TEM (Technical or engineered material use); USES (Uses)
(electrostatog. toners contg., prepn. of)

L35 ANSWER 40 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 93:104821 CA
TI Magnetic **toner**
IN Kawanishi, Tsuneaki; Mukoh, Akio; Morishita, Hirosada
PA Hitachi Metals, Ltd., Japan
SO Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 6617	A2	19800109	EP 1979-102144	19790627
EP 6617	B1	19831207		

R: DE, FR, GB

			JP 1978-77445		19780628
JP 55006308	A2	19800117	JP 1978-77445		19780628
JP 57004904	B4	19820128			
				A	

PATENT FAMILY INFORMATION:

FAN 92:224281

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 55006308	A2	19800117	JP 1978-77445		19780628
	JP 57004904	B4	19820128			
					A	
	US 4265993	A	19810505	US 1979-52442		19790626
				JP 1978-77445	A	19780628
	EP 6617	A2	19800109	EP 1979-102144		19790627
	EP 6617	B1	19831207			
	R: DE, FR, GB					
				JP 1978-77445		19780628

TI Magnetic **toner**

AB A single component type magnetic **toner** for **electrophotog** which transfers well defined images with high efficiency is composed of ferromagnetic material (50-75%) and resinous material (softening point 90-130°). Av. size of the power particle is 5-25 μ, elec. resistivity 1013-1015 Ωcm (at 4000 V/cm d.c.), and dielec. const. 2.6-5. Thus, a mixt. of magnetite (EPT-500 Tode Kogyo Co.) 60, resin (prepd. from styrene 44.0, n-Bu methacrylate 40.2, acrylic acid 15.8 mol%) 35, carbon black 5 wt. parts was plasticized at 110-120°, pulverized, mixed with 0.5% of Aerosil R 972, heat-treated at 200-300°, and classified to give magnetic **toner** particles (3-30 μ), which when mixed with carbon black (0.1%) had an elec. cond. 4 × 10-13 S.cm-1 in elec. field of 4000 V/cm d.c. and dielec. const. 3.8 at frequency 100 kHz. The **toner** when used in a copying process gave excellent transferred-fixed images.

ST **electrophotog** magnetic **toner** single component

IT Acrylic polymers, uses and miscellaneous
Carbon black, uses and miscellaneous
Epoxy resins, uses and miscellaneous
Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous
Phenolic resins, uses and miscellaneous
Polyamides, uses and miscellaneous
Polyesters, uses and miscellaneous
RL: USES (Uses)
(**electrophotog**. magnetic toners contg., single-component, for image transfer)

IT 1309-38-2, uses and miscellaneous 7631-86-9, uses and miscellaneous
11099-03-9 24937-78-8 25068-38-6 25586-20-3 25609-90-9
27306-39-4 39316-78-4 **64155-52-8** 68938-89-6
73827-15-3 74564-92-4 74565-71-2 74565-97-2 74566-08-8
RL: USES (Uses)
(**electrophotog**. magnetic toners contg., single-component, for image transfer)

L35 ANSWER 41 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 90:160131 CA

TI Developers for **electrophotographic** lithographic plates

IN Kawanishi, Toshiyuki; Kaneko, Jiichi; Kitahara, Fumio

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 53123138	A2	19781027	JP 1977-37234	19770401
	JP 62060704	B4	19871217		
				JP 1977-37234 A	19770401

TI Developers for **electrophotographic** lithographic plates

AB Toners for developing **electrophotog**. plates for prepg. lithog. plates contain a compd. of the general formula RO2CCH2CH(SO3M)CO2R1 (R, R1 = C6-12 alkyl; M = metal ion) or a compd. of the formula R2CO2H.H2NR3 (R2 = C2-6 alkyl; R3 = C8-18 alkyl) and a graft copolymer obtained by grafting an unsatd. carboxylic acid (or its anhydride) to a copolymer of a monomer of the general formula CH2:CR4R5 [I; R4 = H, Me; R5 = CO2CnH2n+1, O2CCnH2n+1, OCnH2n+1 (n = 6-20)] and **glycidyl** (meth)acrylate and subsequently grafting thereon (on the side chain formed by the initial graft copolymn.) a monomer of the general formula CH2:CR6R7 [II; R6 = H, Me; R7 = CO2CnH2n+1 (n = 1-4), O2CCmH2m+1 (m = 1-5), Ph, tolyl, chlorophenyl] or a mixt. of the monomer II with another monomer of the general formula CH2:CR8R9 [III; R8 = H, Me; R9 = CO2C2H4N(CnH2n+1)(CmH2m+1)(m, n = 1-4), CO2H, CO2CH2CH2OH, glycidyloxycarbonyl, nitrophenyl, p-dimethylaminophenyl, hydroxyphenyl, carboxyphenyl, aminophenyl, 2-pyridyl, 4-pyridyl, succinimido]. Optionally, a graft copolymer obtained by grafting **glycidyl** (meth)acrylate on a copolymer of I with an unsatd. carboxylic acid or its anhydride and subsequently grafting II or a I-III mixt. on the side chain formed by the initial graft copolymn. can be used. The toners exhibit excellent charging properties and ink affinity. Thus, lauryl methacrylate 194 and **glycidyl** methacrylate 6 g were copolymd., then methacrylic acid 1.5 g was grafted thereon at 80° in the presence of Et3N, and subsequently vinyl acetate 150 g was grafted thereon in the presence of azobis(isobutyronitrile) to give a copolymer dispersion, which was dild. to 5 wt.%. A 5 wt.% didodecyl manganosulfosuccinate soln. (in cyclohexane) 200 mL was then added to the dispersion to give a developer soln. A lithog. plate prepd. by development of a com. **electrophotog**. plate by using the above developer gave high quality prints.

ST **glycidyl** methacrylate copolymer **toner electrophotog**

IT Lithographic plates
(**electrophotog**., **electrophotog**. developers with toners contg. **glycidyl** methacrylate graft copolymer for prodn. of)

IT Photography, electro-, developers
(toners, contg. **glycidyl** methacrylate graft copolymer for lithog. plate prepn.)

IT 69884-41-9
RL: USES (Uses)
(**electrophotog**. developer toners contg. **glycidyl** methacrylate graft copolymer and, for lithog. plate prepn.)

IT **25068-63-7** 40793-13-3 69941-24-8
RL: USES (Uses)
(graft, **electrophotog**. developer toners contg., for lithog. plate prepn.)

L35 ANSWER 42 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 90:64459 CA

TI Magnetic toners for electrostatic image development

IN Mukoo, Akio; Kawanishi, Tsuneaki; Morishita, Yasusada; Hoshi, Nobuyoshi; Anzai, Masayasu

PA Hitachi Metals, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DT Patent

LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 53103744	A2	19780909	JP 1977-18164	19770223
			JP 1977-18164 A	19770223

AB In prepg. magnetic toners, a binder resin having OH, CO2H, and/or **glycidyl** groups is used, and the elec. resistivity of the toners is ≥106 Ω-cm. The toners exhibit excellent transferability. Thus, acrylic acid-Bu acrylate-Me methacrylate-styrene (15:40:10:35 wt. ratio) copolymer (mol. wt. 12,000, softening point 93-100°) 45, magnetite 50, and carbon black 5 parts were kneaded at 100-10° and pulverized to give a magnetic **toner** whose elec. resistivity was 1015 Ω-cm. The transfer efficiency of the **toner** images (at 6 kV corona discharge) from a ZnO-based **electrophotog**. paper to a receptor paper was 92% vs. ≤60% for a control **toner** prepd. with an acrylic acid-free copolymer.

ST magnetic **toner** electrostatog developer; **electrophotog** magnetic **toner** acid copolymer

IT Phenolic resins, uses and miscellaneous
RL: USES (Uses)
(resin-modified, **electrophotog**. magnetic toners contg. magnetite and)

IT Electrography
(developers, magnetic toners for, binder resins contg. hydroxy, carboxy or **glycidyl** groups for)

IT Photography, electro-, developers
(magnetic, toners, binder resins contg. hydroxy, carboxy or **glycidyl** groups for)

IT 1309-38-2, properties
RL: PRP (Properties)
(**electrophotog**. magnetic toners contg. binder resin contg. hydroxy, carboxy or **glycidyl** groups and)

IT 25036-16-2 26588-80-7 **27306-39-4** 37953-21-2 42376-83-0 53808-40-5
RL: USES (Uses)
(**electrophotog**. magnetic toners contg. magnetite and)

L35 ANSWER 43 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 85:114796 CA
TI Transferring paper for **electrophotography**
IN Tanaka, Hiroshi; Soma, Ikuo
PA Canon KK, Japan
SO U.S., 10 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3950595	A	19760413	US 1973-419046	19731126
			US 1973-419046 A	19731126

TI Transferring paper for **electrophotography**
AB A receptor paper for **electrophotog**. **toner** images obtained by liq. development is prepd. by coating a paper support with a polymer or a copolymer prepd. from ≥1 monomer CH2:CRCO2R1 (R = H, Me; R1 = alkyl) and ≥1 monomer selected from unsatd. carboxylic acids and acrylonitrile. The receptor paper so prepd. has a high image transfer efficiency and provides fogless and clear images. The receptor paper also does not absorb excessive amt. of a carrier liq. and thus prevents the prodn. of a large quantity of the carrier vapor at the dry-fixing stage.

Thus, a CdS powder 100 and a 30% soln. of a vinyl acetate-vinyl chloride polymer in PhMe 20 parts were mixed, coated on an Al plate as a 40-μ layer (dry thickness), dried, covered by a 30-μ poly(ethylene terephthalate) film using an **epoxy** resin adhesive, **electrophotog.** imaged and developed in a liq. soln. prepd. from carbon black, a cyclized rubber, polyethylene, a coumarone resin and Isopar G. A sheet of paper (60 g/m2) prepd. from a needle-leaved tree bleached pulp 20, a broad-leaved tree bleached kroft pulp 80, a rosin size 0.3, alum 1.5 and talc 8 parts was coated with a sizing soln. consisting of acrylic acid-ethyl acrylate-methyl methacrylate polymer 70, methyl cellulose 0.5, clay 30, a melamine resin 0.5, a silicon antifoaming agent 0.1 and H2O 100 parts at 3 g/m2 (solids content) and dried. The developed **electrophotog.** image was then transferred onto the receptor paper by corona transfer process and air-dried to give a clear image. The d., the fixability and the uniformity of the transferred image were 1.2, 95% and 9.0, resp.

ST receptor paper **electrophotog** image

IT Sizes
(alkyl acrylate copolymers as, for **electrophotog.** image-receiving papers)

IT Clays
RL: USES (Uses)
(coatings contg., for **electrophotog.** image-receiving papers)

IT 108-78-1, uses and miscellaneous 9002-89-5 9003-20-7 9003-55-8 9004-67-5 9005-25-8D, Starch, oxidized 24937-78-8 25135-39-1 25718-90-5 **53934-24-0** 53934-25-1 **54112-06-0** 60350-48-3 60350-49-4
RL: USES (Uses)
(sizing compn. contg., for **electrophotog.** image-receiving papers)

L35 ANSWER 44 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 85:114778 CA

TI **Electrophotographic** suspension developer

IN Tsubuko, Kazuo; Kurotori, Tsuneo; Kimura, Taro; Kawanishi, Toshiyuki; Kaneko, Yoshikazu

PA Ricoh Co., Ltd., Japan

SO Ger. Offen., 30 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2538581	A1	19760311	DE 1975-2538581	19750829
	DE 2538581	C3	19791018		
	DE 2538581	B2	19790222		
				JP 1974-100590 A	19740903
	JP 51126152	A2	19761104	JP 1974-100590	19740903
	JP 55010195	B4	19800314		
				A	
	US 4081391	A	19780328	US 1975-608832	19750829
				JP 1974-100590 A	19740903

TI **Electrophotographic** suspension developer

AB An **electrophotog.** suspension developer is described which has an outstanding dispersion stability, fixability, and redispersibility and which is esp. useful in the prodn. of offset lithog. plates. The developer consists essentially of a pigment or dye and a resin composed of the graft polymer of a vinyl monomer with the ester of a **glycidyl** acrylate or methacrylate polymer dispersed in a carrier liq. Thus, a polymer dispersion (prepd. by polymn. of 2-ethylhexyl methacrylate with

glycidyl methacrylate, subsequent esterification with acrylic acid, polymn. with Me methacrylate, addn. of polyethylene, and graft polymn. of this mixt. with vinylpyridine) 50 g, carbon black 5, C.I. 50415 1, and Isopar H 100g were ball-milled for 40 hr to give a developer conc. This conc. 10g was then dispersed in Isopar H 2 l. to give a suspension developer which when used in an **electrophotog**. development process to develop a ZnO-based paper gave an image d. of 1.20. On storage of the developer for 7 days at 50° very little change in stability was noted.

ST acrylic polymer **electrophotog** suspension developer

IT Carbon black, uses and miscellaneous
RL: USES (Uses)
(**electrophotog**. liq. developer with **toner** contg. acrylic polymer, wax, and)

IT Acrylic polymers
RL: USES (Uses)
(**electrophotog**. liq. developers for toners contg. pigments and graft)

IT Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous
RL: USES (Uses)
(**electrophotog**. liq. developers with toners contg. acrylic polymers, pigments, and)

IT Lithographic plates
(offset, **electrophotog**. liq. developers with toners contg. graft polymers and pigments for prepn. of)

IT 1317-61-9 1324-77-2 6358-85-6 11099-03-9 30586-15-3 60454-60-6
RL: USES (Uses)
(**electrophotog**. liq. developer with **toner** contg. acrylic polymer, wax, and)

IT **59158-34-8**
RL: USES (Uses)
(graft, **electrophotog**. liq. developers contg. pigment and)

IT 59041-18-8 59158-30-4 59412-59-8 **60436-47-7** 60436-49-9 60663-46-9
RL: USES (Uses)
(graft, **electrophotog**. liq. developers with toners contg. pigment and)

IT 9002-88-4
RL: USES (Uses)
(wax, **electrophotog**. liq. developer with **toner** contg. acrylic polymer, pigment, and)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	70.82	71.24

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-10.20	-10.20

FILE 'STNGUIDE' ENTERED AT 08:00:09 ON 14 APR 2005

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 8, 2005 (20050408/UP).

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                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    0.18       71.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00      -10.20

FILE 'CA' ENTERED AT 08:01:48 ON 14 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


     (FILE 'HOME' ENTERED AT 07:56:30 ON 14 APR 2005)

     FILE 'CA' ENTERED AT 07:57:34 ON 14 APR 2005
               ACT A658811A1/A
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L1   (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L2   (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L3   (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L4   (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L5   (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L6   (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L7   (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L8   (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L9   (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L10  (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L11  (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L1 OR 88-12-0/C
L12  (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L2 OR 106-91-2
L13  (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L14  (     17116)SEA FILE=REGISTRY L13 AND L11 AND L12 AND PMS/CI
L15  (     14247)SEA FILE=CA L14
L16          80 SEA FILE=CA L15 (P) (BINDER OR RESIN) AND TONER
               ---------
               ACT A658811/A
              ---------
L17  (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L18  (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L19  (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L20  (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L21  (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L22  (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
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L23 (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L24 (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L25 (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L26 (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L27 (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L17 OR 88-12-0/
L28 (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L18 OR 106-91-
L29 (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L30 (     17116)SEA FILE=REGISTRY L29 AND L27 AND L28 AND PMS/CI
L31       14247 SEA FILE=CA L30
               ---------
L32        3617 S L31 AND (GLYCIDYL OR EPOXY OR OXIRANE)
L33          84 S L32 AND TONER
L34          48 S L33 NOT (LIQUID (2W) (TONER# OR DEVELOP?))
L35          44 S L34 AND ELECTROPHOTOG?

     FILE 'STNGUIDE' ENTERED AT 08:00:09 ON 14 APR 2005

     FILE 'CA' ENTERED AT 08:01:48 ON 14 APR 2005

=> s l35 not (liq# (w) (toner# or develop?))
        953435 LIQ#
         31322 TONER#
       2022478 DEVELOP?
          2956 LIQ# (W) (TONER# OR DEVELOP?)
L36          36 L35 NOT (LIQ# (W) (TONER# OR DEVELOP?))

=> fil stnguide
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                5.83      77.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                  ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00     -10.20

FILE 'STNGUIDE' ENTERED AT 08:02:20 ON 14 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> fil ca; d hitstr l34 35
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                0.42      77.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                  ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00     -10.20

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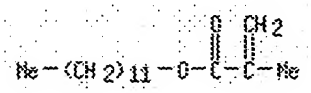
FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L34 ANSWER 35 OF 48 CA COPYRIGHT 2005 ACS on STN
IT **125120-19-6 125120-20-9**
RL: USES (Uses)
(zinc oxide electrophotog. materials contg., for lithog. plate prepn.)
RN 125120-19-6 CA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with oxiranylmethyl 2-methyl-2-propenoate, 2-propenenitrile and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

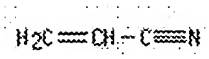
CM 1

CRN 142-90-5
CMF C16 H30 O2



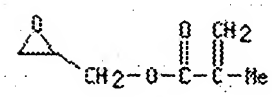
CM 2

CRN 107-13-1
CMF C3 H3 N



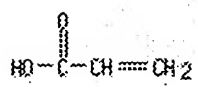
CM 3

CRN 106-91-2
CMF C7 H10 O3



CM 4

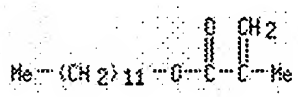
CRN 79-10-7
CMF C3 H4 O2



RN 125120-20-9 CA
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with 1-ethenyl-2-pyrrolidinone, oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

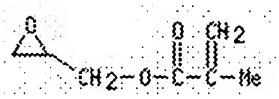
CM 1

CRN 142-90-5
CMF C16 H30 O2



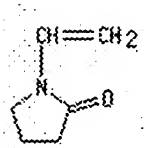
CM 2

CRN 106-91-2
CMF C7 H10 O3



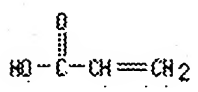
CM 3

CRN 88-12-0
CMF C6 H9 N O



CM 4

CRN 79-10-7
CMF C3 H4 O2

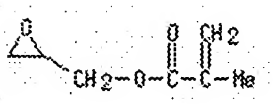


=> d l35 35 hitstr

L35 ANSWER 35 OF 44 CA COPYRIGHT 2005 ACS on STN
IT **25101-94-4**, **Glycidyl** methacrylate-12-hydroxystearic acid-methacrylic acid-methyl methacrylate copolymer
RL: USES (Uses)
(dispersing agent, for suspension-polymn. in nonaq. media, in manuf. of electrostatog. **toner**)
RN 25101-94-4 CA
CN Octadecanoic acid, 12-hydroxy-, polymer with methyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

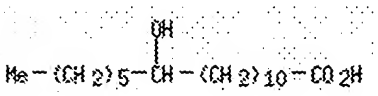
CM 1

CRN 106-91-2
CMF C7 H10 O3



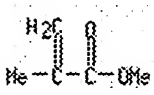
CM 2

CRN 106-14-9
CMF C18 H36 O3



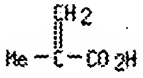
CM 3

CRN 80-62-6
CMF C5 H8 O2



CM 4

CRN 79-41-4
CMF C4 H6 O2



=> fil stnguide
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION

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FULL ESTIMATED COST                                    5.67      83.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00     -10.20

FILE 'STNGUIDE' ENTERED AT 08:08:00 ON 14 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> d his

     (FILE 'HOME' ENTERED AT 07:56:30 ON 14 APR 2005)

     FILE 'CA' ENTERED AT 07:57:34 ON 14 APR 2005
               ACT A658811A1/A
               ---------
L1   (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L2   (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L3   (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L4   (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L5   (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L6   (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L7   (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L8   (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L9   (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L10  (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L11  (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L1 OR 88-12-0/C
L12  (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L2 OR 106-91-2
L13  (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L14  (     17116)SEA FILE=REGISTRY L13 AND L11 AND L12 AND PMS/CI
L15  (     14247)SEA FILE=CA L14
L16          80 SEA FILE=CA L15 (P) (BINDER OR RESIN) AND TONER
               ---------
               ACT A658811/A
               ---------
L17  (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L18  (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L19  (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L20  (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L21  (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L22  (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L23  (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L24  (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L25  (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L26  (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L27  (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L17 OR 88-12-0/
L28  (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L18 OR 106-91-
L29  (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L30  (     17116)SEA FILE=REGISTRY L29 AND L27 AND L28 AND PMS/CI
L31        14247 SEA FILE=CA L30
               ---------
L32         3617 S L31 AND (GLYCIDYL OR EPOXY OR OXIRANE)
L33           84 S L32 AND TONER
L34           48 S L33 NOT (LIQUID (2W) (TONER# OR DEVELOP?))
L35           44 S L34 AND ELECTROPHOTOG?

     FILE 'STNGUIDE' ENTERED AT 08:00:09 ON 14 APR 2005
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     FILE 'CA' ENTERED AT 08:01:48 ON 14 APR 2005
L36          36 S L35 NOT (LIQ# (W) (TONER# OR DEVELOP?))

     FILE 'STNGUIDE' ENTERED AT 08:02:20 ON 14 APR 2005

     FILE 'CA' ENTERED AT 08:06:15 ON 14 APR 2005

     FILE 'STNGUIDE' ENTERED AT 08:08:00 ON 14 APR 2005

=> fil ca; d kwic fbib 15-29 l35
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.54      83.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00     -10.20

FILE 'CA' ENTERED AT 08:13:10 ON 14 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.
```

L35 ANSWER 15 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

TI Polymer composition and **electrophotographic toner** using it

AB . . . 105-5 × 106 and acid value ≥10 mg KOH/g larger than that of a and (B) a vinyl polymer having **glycidyl** or β-methylglycidyl groups. A **toner** contg. the compn. is also claimed. The **toner** shows good antiblocking and antioffset properties and high fixability at a various temp. range.

ST vinyl polymer **glycidyl** binder **electrophotog toner**; acrylic styrene copolymer binder **electrophotog toner**

IT Binders
Electrophotographic toners
(high-fixability **electrophotog**. **toner** contg. vinyl polymer-based binder)

IT 25586-20-3P, Acrylic acid-butyl acrylate-styrene copolymer **25987-66-0P**, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer 26428-43-3P, Butyl acrylate-**glycidyl** methacrylate-styrene copolymer 27306-43-0P, Acrylic

acid-2-ethylhexyl acrylate-methyl methacrylate-styrene copolymer 50327-91-8P, Butyl acrylate-**glycidyl** acrylate-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(high-fixability **electrophotog**. **toner** contg. vinyl polymer-based binder)

AN 127:169058 CA
TI Polymer composition and **electrophotographic toner** using it
IN Okuto, Masazumi; Furukawa, Toshiharu
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09185182	A2	19970715	JP 1996-209	19960105
			JP 1996-209	19960105

L35 ANSWER 16 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Preparing printing plates by **electrophotography**
AB Printing plates are prepd. by forming a **toner** image on a peelable transfer layer contg. a resin, capable of being removed by chem. reaction, on an **electrophotog**. light-sensitive element, providing an adhesive layer contg. a thermoplastic resin only on the **toner** image, transferring the **toner** image together with the transfer layer and the adhesive layer from the element to a temporary receptor, transferring the **toner** image with the layers to a receiving material with a hydrophilic surface, and partially removing the transfer layer by chem.. . .
ST printing plate prepn **electrophotog** image transfer
IT Lithographic plates
Printing plates
(prepn. by **electrophotog**. **toner** image transfer process)
IT **Electrophotography**
(printing plate prepn. by **toner** image transfer process of)
IT Polysiloxanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(printing plate prepn. by **toner** image transfer process using **electrophotog**. photoreceptors contg.)
IT 29014-80-0, Dodecyl methacrylate-methacrylic acid copolymer 93059-20-2, FOC-1400 169045-60-7, Acrylic acid-benzyl methacrylate-2-butoxyethyl methacrylate copolymer 186587-88-2 188951-12-4 188951-13-5 188951-20-4 188951-24-8, Methacrylic acid-methyl methacrylate-vinyl butyrate copolymer 188951-25-9, Acrylic acid;2,3-dimethoxypropyl methacrylate;2-phenylethyl methacrylate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(in prepg. transfer layers for **electrophotog**. photoreceptors for manuf. of printing plates)
IT 26616-87-5, 1,3-Butadiene-styrene-vinyl acetate copolymer 188950-63-2, Acrylic acid;benzyl methacrylate;bis(methacryoxyethyl) butandioate;2-butoxyethyl methacrylate;octadecyl methacrylate graft copolymer 188950-65-4, Acrylic acid;3-butoxypropyl methacrylate; hexadecyl methacrylate;octadecyl methacrylate;2-phenylethyl methacrylate graft copolymer **188950-67-6**, 2-Carboxyethyl acrylate;2,3-diethoxypropyl methacrylate;dodecyl methacrylate;methyl methacrylate;5-[3-[(2-methyl-1-oxo-2-propenyl)oxy]-1-oxopropoxy]pentyl methacrylate graft copolymer 188950-68-7 188950-69-8 188950-70-1 188950-71-2 188950-73-4 188950-74-5 188950-75-6 188950-76-7

188950-77-8 188950-79-0 188950-80-3, Crotonic acid;ethenyl 2-[(1-oxo-2-propenyl)oxy]ethyl butanedioate;tridecyl methacrylate;vinyl acetate;vinyl valerate graft copolymer 188950-82-5, Benzyl methacrylate;dodecyl methacrylate;2-[2-(hexyloxy)ethoxy]ethyl methacrylate;2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 11-[(2-methyl-1-oxo-2-propenyl)amino]undecanoate;2-sulfoethyl methacrylate graft copolymer 188950-83-6 188950-85-8 188950-86-9 188950-88-1 188950-89-2 188950-90-5 188950-91-6 **188950-92-7** **188950-93-8** 188950-94-9 188950-95-0 188950-96-1 188950-97-2 188950-99-4 188951-00-0 188951-01-1 188951-02-2 188951-03-3 **188951-04-4** 188951-05-5 188951-06-6 188951-07-7 188951-08-8 188951-09-9 188951-10-2 189120-14-7 189890-33-3
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. and use in prepg. transfer layers for **electrophotog.** photoreceptors for manuf. of printing plates)

IT 186522-24-7, Tetradecyl methacrylate-methacrylic acid copolymer 186522-49-6
RL: TEM (Technical or engineered material use); USES (Uses)
(printing plate prepn. by **electrophotog.** image transfer process using liq. developers contg.)

IT 53192-53-3, **Glycidyl** methacrylate-methyl acrylate-methyl methacrylate copolymer 186094-52-0
RL: TEM (Technical or engineered material use); USES (Uses)
(printing plate prepn. by **electrophotog. toner** image transfer process using primary receptors contg.)

IT 85-44-9, Phthalic anhydride 574-93-6, Phthalocyanine 1314-13-2, Zinc oxide, uses 15008-36-3 17501-44-9, Zirconium acetylacetonate **28630-43-5**, **Glycidyl** methacrylate-methacrylic acid-methyl methacrylate copolymer **30525-33-8**, Acrylic acid-dodecyl methacrylate-methyl methacrylate copolymer 36034-82-9 113374-95-1 173783-73-8 176762-83-7 182559-23-5 188951-11-3 188951-14-6 188951-15-7 188951-17-9 188951-26-0, Methyl methacrylate-4-methylstyrene-3-(trimethoxysilyl)propyl methacrylate copolymer 188951-28-2 188951-30-6 188951-31-7 188951-32-8
RL: TEM (Technical or engineered material use); USES (Uses)
(printing plate prepn. by **toner** image transfer process using **electrophotog.** photoreceptors contg.)

AN 126:349707 CA
TI **Preparing printing plates by electrophotography**
IN Kato, Eiichi; Nakazawa, Yusuke; Ishii, Kazuo
PA Fuji Photo Film Co., Ltd., Japan
SO Brit. UK Pat. Appl., 248 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2302063	A1	19970108	GB 1996-12258	19960612
GB 2302063	B2	19990203		
			JP 1995-144885 A	19950612
US 5700612	A	19971223	US 1996-661723	19960611
			JP 1995-144885 A	19950612
JP 09062038	A2	19970307	JP 1996-151364	19960612
			JP 1995-144885 A	19950612

L35 ANSWER 17 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI **Electrophotographic** developer containing **toner** particles having shapes different from each other
AB The developer contains **toner** particles which comprises at least a coloring agent and a resin, wherein shapes of the **toner** particles are

combination of ≥2 selected from globular, fibrous (having many needle fibers on the surface), and amorphous. The coloring. . .

ST liq **electrophotog** developer **toner** shape; coloring agent liq **electrophotog** developer

IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Mogul A; **electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

IT **Electrophotographic** developers
(liq. **electrophotog**. developer contg. **toner** particles as mixt. of those with globular, fiber-contg., and/or amorphous shape)

IT **Electrophotographic** developers
(liq.; **electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

IT Rosin
RL: TEM (Technical or engineered material use); USES (Uses)
(maleated; **electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

IT 147-14-8DP, diazotized,reaction products with methacrylic acid-stearyl methacrylate copolymer 27401-06-5DP, Methacrylic acid-stearyl methacrylate copolymer, reaction products with diazotized copper phthalocyanine blue 32761-10-7P, Stearyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

IT 91825-10-4, BR 89
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

IT 147-14-8 548-62-9, Crystal Violet 980-26-7, Pigment Red 122 5280-68-2, Pigment Red 146 5281-04-9, Carmine 6B 6358-85-6, Pigment Yellow 12 9002-88-4, Sanwax 171P 9010-77-9, Acrylic acid-ethylene copolymer 25053-53-6, ELVAX-II 5610 **25068-63-7**, **Glycidyl** methacrylate-lauryl methacrylate-methacrylic acid-methyl methacrylate copolymer 27401-06-5, Methacrylic acid-stearyl methacrylate copolymer 28851-51-6, **Glycidyl** methacrylate-lauryl methacrylate copolymer 55492-07-4, Butyl methacrylate-**glycidyl** methacrylate-styrene copolymer 188827-55-6, Acrylamide-**glycidyl** methacrylate-lauryl methacrylate copolymer 188827-56-7 188827-57-8 188827-58-9, Sodium methacrylate-stearyl methacrylate copolymer 188827-59-0, Acrylic acid-ethyl acrylate-ethylene-vinyltoluene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. developer contg. **toner** particles having shapes of combination of globular, fibrous, and amorphous)

AN 126:270376 CA

TI **Electrophotographic** developer containing **toner** particles having shapes different from each other

IN Tsubushi, Kazuo; Goto, Akihiko; Asami, Takeshi; Mizuno, Kazuyo; Koseki, Akihiro

PA Ricoh Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	JP 09050146	A2	19970218	JP 1996-127858	19960424
				JP 1995-123154 A	19950424
				JP 1995-155523 A	19950531

PATENT FAMILY INFORMATION:

FAN 126:124730

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08292610	A2	19961105	JP 1995-123156	19950424
	US 5851717	A	19981222	US 1996-637081	19960424
				JP 1995-123156 A	19950424
				JP 1995-155523 A	19950531

L35 ANSWER 18 OF 44 CA COPYRIGHT 2005 ACS on STN

Full Text

TI Preparation of printing plates by **electrophotography** with high image qualities in the plates and prints

AB . . . prepd. by placing a peelable first transfer layer of mainly resins that can be removed by chem. reaction; forming an **electrophotog.** **toner** image on the above layer; transferring the **toner** image to first receptor [by (i) forming peelable second transfer layer contg. mainly the above resins then transferring the **toner** image together with the transfer layer to the first receptor; or (ii) transferring the **toner** image together with the first transfer layer on to the receptor having peelable second transfer layer of mainly the above resins]; transferring the **toner** image together with the first transfer layer to final receptor becoming lithog.-printable hydrophilic surface during printing; then removing second transfer. . .

ST printing plate manuf **electrophotog**; peelable transfer printing plate

IT Polysiloxanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, carboxy-terminated; prepn. of printing plates by **electrophotog.** with high image qualities in the plates and prints)

IT Polysiloxanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, hydroxy-terminated; prepn. of printing plates by **electrophotog.** with high image qualities in the plates and prints)

IT Polysiloxanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(ester group-contg.; prepn. of printing plates by **electrophotog** . with high image qualities in the plates and prints)

IT **Electrophotography**
Parting materials
Printing plates
(prepn. of printing plates by **electrophotog.** with high image qualities in the plates and prints)

IT Polysiloxanes, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(prepn. of printing plates by **electrophotog.** with high image qualities in the plates and prints)

IT 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 150624-67-2P 150624-77-4P 150624-89-8P 150625-22-2P 155292-83-4P 155292-84-5P 155292-85-6P 155292-86-7P 155292-87-8P 155292-88-9P 155292-90-3P 155292-96-9P 157966-19-3P 166594-77-0P, Acrylic acid-benzyl methacrylate-2-methoxyethyl methacrylate copolymer 169045-58-3P 169045-60-7P, Acrylic acid-benzyl methacrylate-2-butoxyethyl methacrylate copolymer 169045-63-0P, Acrylic acid-methyl methacrylate-2-propoxyethyl methacrylate copolymer 169045-71-0P 169045-72-1P 169045-73-2P 169045-75-4P 169045-77-6P 169045-78-7P 169045-81-2P 169045-82-3P

169045-83-4P 169045-84-5P 169045-87-8P 169045-93-6P 169045-95-8P
169045-97-0P 169045-98-1P 169046-25-7P 169046-26-8P 169046-28-0P
169046-29-1P 169046-30-4P 169046-32-6P 169218-33-1P 176762-50-8P,
Crotonic acid-vinyl acetate-vinyl valerate copolymer 176762-52-0P,
2,3-Dipropoxycarbonylpropyl methacrylate-methyl methacrylate-2-sulfoethyl
methacrylate copolymer 176762-54-2P 176762-62-2P 176762-63-3P
176762-65-5P 176762-66-6P 176771-17-8P 176771-19-0P 176771-21-4P
176771-22-5P 176771-23-6P 183317-12-6P 183317-16-0P, Acrylic
acid-dimethylsilanediol-methyl methacrylate-2-pentyloxyethyl methacrylate
graft copolymer 183317-19-3P 183317-21-7P 183317-24-0P
183317-25-1P 183317-26-2P 183317-27-3P 183317-28-4P 183317-29-5P
183317-31-9P **183317-32-0P** 183317-33-1P 183317-36-4P
183317-61-5P 183317-62-6P 183317-63-7P 183317-74-0P 183371-63-3P
186094-45-1P 186094-46-2P 186094-47-3P 186094-48-4P 186094-59-7P
186094-60-0P 186094-61-1P 186094-62-2P 186094-63-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(prepn. of printing plates by **electrophotog**. with high image
qualities in the plates and prints)

IT 26590-46-5, Ethylene-methacrylic acid-methyl methacrylate copolymer
31900-57-9D, Dimethylsilanediol homopolymer, dimethylvinylsilyl-terminated
53192-53-3, **Glycidyl** methacrylate-methyl acrylate-methyl
methacrylate copolymer 59942-04-0D, dimethylvinylsilyl-terminated
65697-21-4D, Benzyl methacrylate-methacrylic acid copolymer,
carboxyethylthio-terminated 156118-35-3, Dimethylsilanediol-
methylsilanediol copolymer 156618-33-6 176762-96-2, Acrylic
acid-benzyl methacrylate-2-propoxyethyl methacrylate copolymer
176771-25-8 182559-23-5 182559-29-1 182559-31-5 183317-48-8
183317-51-3 183317-53-5 183317-55-7 183317-56-8 183317-58-0
186094-50-8 186094-52-0 186094-53-1 186094-54-2 186094-55-3
186094-56-4 186094-57-5 186094-58-6
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(prepn. of printing plates by **electrophotog**. with high image
qualities in the plates and prints)

IT 162127-42-6, X-22-167B 163916-20-9 163916-21-0
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of printing plates by **electrophotog**. with high image
qualities in the plates and prints)

AN 126:124741 CA
TI Preparation of printing plates by **electrophotography** with high image
qualities in the plates and prints
IN Kato, Eiichi; Nakazawa, Jusuke
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 89 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 08292611	A2	19961105	JP 1996-36726		19960223
				JP 1995-60079	A	19950224
	US 5648191	A	19970715	US 1996-605440		19960222
				JP 1995-60079	A	19950224

L35 ANSWER 19 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Photosensitive substance for **electrophotography**, **electrophotographic**
photoreceptor and its manufacture, and color filter and its manufacture
using it
AB . . . vinyl compd., a CO2H-contg. vinyl compd., and a OH-contg. vinyl

compd.. The copolymer may be prepd. by use of an **epoxy** ring-contg. vinyl compd. in place of the OH-contg. or CO2H-contg. vinyl compd. The photoreceptor comprises a substrate with a coating. . . to the light-insulating or colored pixel pattern to form a latent image, and developing the image with a liq. developing **toner**. Color filters with good solvent-resistance can be manufd. by **electrophotog**. process. Thus, N-vinylcarbazole-Bu methacrylate-acrylic acid-2-hydroxyethyl methacrylate copolymer was used for the photosensitive substance.

ST **electrophotog** photoreceptor photoconductive vinyl copolymer; electrodeposition vinyl copolymer photoreceptor manuf; color filter **electrophotog** photoreceptor

IT **Electrophotographic** photoconductors (photoreceptors)
Optical filters
(**electrophotog**. photoreceptor contg. photoconductive vinyl copolymer for color filters)

IT Electrodeposition
(**electrophotog**. photoreceptor contg. photoconductive vinyl copolymer manufd. by electrodeposition)

IT **185031-85-0P 185031-86-1P 185031-87-2P**
185031-88-3P 185031-89-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(**electrophotog**. photoreceptor contg. photoconductive vinyl copolymer for color filters)

AN 126:52821 CA

TI Photosensitive substance for **electrophotography**, **electrophotographic** photoreceptor and its manufacture, and color filter and its manufacture using it

IN Sasaki, Atsushi; Watanabe, Eizaburo; Ike, Nobuaki; Fujita, Kenichi

PA Toppan Printing Co Ltd, Japan; Toyo Ink Mfg Co

SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08262766	A2	19961011	JP 1995-63131	19950322
			JP 1995-63131	19950322

L35 ANSWER 20 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

TI Resin composition for **electrophotographic toner**

AB . . . ≤100,000 dyne/cm2 at 170°, where (A) contains a nitrile-group-contg. polymer. The compn. is esp. suitable as a binder resin for **electrophotog**. dry **toner**.

ST resin compn **electrophotog toner**

IT **Epoxy** resins, uses
Polyamides, uses
Polyesters, uses
Urethane polymers, uses
RL: DEV (Device component use); USES (Uses)
(resin compn. for **electrophotog**. **toner** comprising)

IT **Electrophotographic** developers
(toners, resin compn. for **electrophotog**. **toner** with specific dynamic elastic modulus)

IT 9010-79-1, Viscol 550P 25153-46-2, 2-Ethylhexylacrylate-styrene copolymer 26282-37-1, Acrylonitrile-2-ethylhexylacrylate-styrene copolymer 35725-18-9, Acrylonitrile-lauryl methacrylate-styrene copolymer 52907-82-1, Benzoic acid-Epicote 1002 copolymer 89993-85-1, Propoxylated bisphenol A-isophthalic acid copolymer 97697-76-2, Ethoxylated bisphenol A-terephthalic acid copolymer 130038-55-0,

MDI-ethoxylated bisphenol A copolymer 138128-04-8, Propoxylated bisphenol A-dodecenylsuccinic acid-terephthalic acid copolymer **183243-85-8**, Acrylic acid-acrylonitrile-lauryl methacrylate-styrene copolymer
RL: DEV (Device component use); USES (Uses)
(resin compn. for **electrophotog. toner** comprising)

AN 125:312400 CA
TI Resin composition for **electrophotographic toner**
IN Niinae, Takashi; Sasada, Shinya
PA Sanyo Chemical Industries Ltd., Japan
SO Ger. Offen., 13 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19608712	A1	19960919	DE 1996-19608712	19960306
			JP 1995-74565 A	19950306
JP 08305081	A2	19961122	JP 1996-69286	19960228
JP 2906034	B2	19990614		
			JP 1995-74565 A	19950306
CN 1133443	A	19961016	CN 1996-102711	19960301
			JP 1995-74565 A	19950306
FR 2731529	A1	19960913	FR 1996-2830	19960306
FR 2731529	B1	19981127		
			JP 1995-74565 A	19950306
US 5714542	A	19980203	US 1996-611821	19960306
			JP 1995-74565 A	19950306

L35 ANSWER 21 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Manufacture of lithographic printing plate by **electrophotographic** process
AB The process comprises forming a **toner** image on a peelable **electrophotog.** photoreceptor by using an **electrophotog.** process, electrodepositing a layer made up of ≥2 types of resin particles with different Tg (glass transition temp.) on the **toner** image to form a 1st transfer layer, applying a layer made up of resin particles with a higher Tg to form a 2nd transfer layer, transferring the **toner** image and the 1st and 2nd transfer layers to a receptor, and removing the 1st and 2nd transfer layers in. . .
ST lithog printing plate **electrophotog** process manuf; resin particle lithog printing plate
IT **Electrophotography**
Lithographic plates
(manuf. of lithog. printing plate by **electrophotog.** process)
IT Siloxanes and Silicones, uses
RL: NUU (Other use, unclassified); USES (Uses)
(manuf. of lithog. printing plate by **electrophotog.** process)
IT 182829-01-2
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(binder resin; manuf. of lithog. printing plate by **electrophotog.** process)
IT 25639-21-8D, thioethoxycarbonylethyl methacrylate terminated 29014-80-0, Dodecyl methacrylate- methacrylic acid copolymer 182558-54-9 182558-79-8
RL: MOA (Modifier or additive use); USES (Uses)
(dispersion stabilizing resin; manuf. of lithog. printing plate by **electrophotog.** process)
IT 67923-67-5, Acrylic acid-ethyl acrylatemethyl acrylate-methyl methacrylate copolymer

RL: NUU (Other use, unclassified); USES (Uses)
(dispersion stabilizing resin; manuf. of lithog. printing plate by **electrophotog**. process)

IT 3052-61-7, Benzyl-N,N-diethyldithiocarbamate 109473-77-0 155293-25-7
RL: MOA (Modifier or additive use); USES (Uses)
(initiator; manuf. of lithog. printing plate by **electrophotog** . process)

IT 150551-83-0 150551-90-9 150551-91-0 150551-93-2 158320-07-1
182558-56-1 182558-84-5D, thioethoxycarbonylaminoethyl methacrylate terminated
RL: MOA (Modifier or additive use); USES (Uses)
(manuf. of lithog. printing plate by **electrophotog**. process)

IT 166594-77-0, Acrylic acid- benzyl methacrylate- 2-methoxyethyl methacrylate copolymer
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(manuf. of lithog. printing plate by **electrophotog**. process)

IT 25035-26-1, Crotonic acid-vinyl acetate-vinyl propionate copolymer
25766-25-0, Vinyl acetate- vinyl butanoate- crotonic acid copolymer
27155-22-2, Acrylic acidmethyl acrylatemethyl methacrylate copolymer
30475-53-7D, Methacrylic acidphenyl methacrylate copolymer, carboxy-terminated **40045-04-3**, Acrylic acid-ethyl methacrylate-**glycidyl** methacrylate copolymer 65697-21-4D, Benzyl methacrylate; methacrylic acid copolymer, carboxy-terminated
155161-71-0, Acrylic acid-benzyl methacrylate-methyl methacrylate copolymer 155161-74-3, Benzyl methacrylate-**glycidyl** methacrylate-methacrylic acid copolymer 166594-75-8D, thioethylmetacrylate terminated 172598-64-0 **182558-57-2**, Acrylic acid-2-butoxyethyl methacrylate-crotonic acid-methyl methacrylate-vinyl acetate-vinyl propionate copolymer 182558-58-3
182559-23-5 182559-26-8, Methyl methacrylate-acrylic acid-2-sulfoethyl methacrylate copolymer 182559-29-1 182559-31-5 182559-33-7
182559-34-8 182559-35-9 182559-36-0 182559-37-1
RL: NUU (Other use, unclassified); USES (Uses)
(manuf. of lithog. printing plate by **electrophotog**. process)

IT 26936-24-3, Methyl acrylatemethyl methacrylate-methacrylic acid copolymer
73248-83-6, 2,2,3,4,4,4-Hexafluorobutyl methacrylate-methyl methacrylate copolymer 130030-47-6, Acrylic acid-benzyl methacrylate-ethyl acrylate copolymer 150624-89-8 157966-19-3 161552-54-1 169046-28-0
169046-29-1 169046-30-4 169046-32-6 182558-60-7 182558-61-8, Acrylic acid-2-carboxyethyl acrylate-methyl acrylate-methyl methacrylate copolymer 182558-63-0 182558-65-2, Acrylic acid-2-butoxyethyl acrylate-ethyl methacrylate-methyl methacrylate-2-hydroxyethyl acrylate copolymer 182558-67-4 182558-68-5 182558-69-6 182558-71-0
182558-73-2 182558-75-4 182558-76-5 182558-78-7 182558-80-1
182558-81-2D, thioethoxycarbonylethyl methacrylate terminated
182558-82-3D, thioethylmethacrylate terminated 182558-83-4D, 3-cyanobutanoyloxyethyl acrylate terminated 182558-85-6, Acrylic acid-2-ethoxyethyl acrylate-methyl acrylate copolymer 182558-86-7
182558-87-8 182558-88-9 182558-89-0 182558-90-3 182558-91-4
182558-92-5 182558-93-6 182558-94-7 182558-95-8 182558-97-0
182558-99-2 182559-02-0 182559-04-2 182559-12-2 182559-14-4
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(manuf. of lithog. printing plate by **electrophotog**. process)

IT 25135-39-1P, Acrylic acid-ethyl acrylatemethyl methacrylate copolymer
25302-81-2P, Acrylic acid-methyl acrylate copolymer 58991-34-7P
155161-64-1P, Acrylic acid- diethylene glycol monomethyl ether methacrylate- methyl methacrylate copolymer 169045-58-3P, 2-Carboxyethyl acrylate-methyl acrylate-methyl methacrylate copolymer 169045-70-9P
182558-59-4P 182558-62-9P, Acrylic acid-2-methoxyethyl acrylate-methyl acrylate-methyl methacrylate-methacrylic acid copolymer 182558-64-1P,

Acrylic acid-ethyl methacrylate-2-hydroxyethyl acrylate copolymer
182558-66-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(manuf. of lithog. printing plate by **electrophotog**. process)

AN 125:288810 CA
TI Manufacture of lithographic printing plate by **electrophotographic** process
IN Kato, Eiichi
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 79 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08194341	A2	19960730	JP 1995-19897	19950113
			JP 1995-19897	19950113

L35 ANSWER 22 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI **Electrophotographic** color imaging method
AB The title method utilizes colorless transparent **toner** comprising colorless polymeric binder and colorless polymeric charge controller. The **toner** is pos.-charging liq. **toner** and its binder is a graft-mixed-polymer with claimed vinyl monomers. The method produced high quality images.
ST color **electrophotog** method **toner** graft polymer
IT **Electrophotographic** development
(color, **electrophotog**. color imaging method)
IT **Electrophotographic** developers
(color, toners, **electrophotog**. color imaging method)
IT **180311-52-8P**, 2-Ethylhexyl methacrylate-**glycidyl** methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-N-vinyl-2-pyrrolidone graft copolymer **180311-53-9P**, 2-Ethylhexyl methacrylate-**glycidyl** methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-4-vinylpyridine graft copolymer
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(binder resin of **electrophotog**. **toner**)
IT 31196-82-4P, Lauryl methacrylate-methyl methacrylate-N-vinylpyrrolidone copolymer 34888-27-2P, 2-Hydroxyethyl methacrylate-lauryl methacrylate copolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(charge controller of **electrophotog**. **toner**)
AN 125:181177 CA
TI **Electrophotographic** color imaging method
IN Faust, Raimund Josef; Lutz, Silvia
PA Hoechst A.-G., Germany
SO Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 720067	A1	19960703	EP 1995-120267	19951221
EP 720067	B1	19990915		
R: AT, BE, DE, ES, FR, GB, IT, NL				
			DE 1994-4447104 A	19941229
DE 4447104	A1	19960704	DE 1994-4447104	19941229

US 5700618	A	19971223	US 1995-579434		19951227
			DE 1994-4447104	A	19941229
JP 08254859	A2	19961001	JP 1995-343827		19951228
			DE 1994-4447104	A	19941229
BR 9506125	A	19971223	BR 1995-6125		19951228
			DE 1994-4447104	A	19941229

L35 ANSWER 23 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Preparation of durable printing plates by **electrophotography**
AB The title prepn. involves forming a first transfer layer by electrodeposition, on **electrophotog.** photoreceptor, of resin particles contg. polymers (A) with Tg 10-140° and softening point 35-180° and also polymers with Tg ≤45°. . . . and softening point ≤60° which are ≥2° lower than those of the polymers A then a second transfer layer then **electrophotog. toner** images, transfer of the **toner** image together with the transfer layers on a receptor, and chem. removing the transfer layers.
ST printing plate **electrophotog**
IT **Electrophotography**
Parting materials
Printing plates
(prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(aminoalkyl di-Me, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(carboxy-contg., release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, 3-hydroxypropyl Me, ethoxylated, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, carboxy-terminated, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, **epoxy**-contg., XF 42A5041, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, hydroxy-terminated, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, hydroxyalkyl Me, ethoxylated, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, hydroxyalkyl Me, ethoxylated propoxylated, release; prepn. of durable printing plates by **electrophotog.**)
IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(di-Me, hydroxyalkyl Me, propoxylated, release; prepn. of durable printing plates by **electrophotog.**)
IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(fluorine-contg., release; prepn. of durable printing plates by

electrophotog.)

IT Fluoropolymers
RL: TEM (Technical or engineered material use); USES (Uses)
(polyoxyalkylene-, release; prepn. of durable printing plates by **electrophotog.**)

IT Polymerization catalysts
RL: TEM (Technical or engineered material use); USES (Uses)
(star-block, prepn. of durable printing plates by **electrophotog.**)

IT 109473-77-0P 150551-83-0P 150551-84-1P 150551-90-9P 150551-93-2P
155293-25-7P 176771-24-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymn. initiator; prepn. of durable printing plates by **electrophotog.**)

IT 25035-26-1P, Crotonic acid-vinyl acetate-vinyl propionate copolymer
26936-24-3P, Methacrylic acid-methyl acrylate-methyl methacrylate copolymer 61255-17-2P, Divinylbenzene-dodecyl methacrylate copolymer
150624-67-2P 150624-77-4P 150625-22-2P 150642-13-0P 155292-83-4P
155292-84-5P 155292-85-6P 155292-88-9P 155292-90-3P 161512-62-5P
166594-77-0P 169045-70-9P 169046-26-8P 169046-28-0P 169046-29-1P
169046-30-4P 169046-32-6P **176770-75-5P** 176770-76-6P
176770-78-8P **176770-79-9P** 176770-80-2P 176770-81-3P
176770-82-4P 176770-83-5P 176770-84-6P 176770-86-8P 176770-87-9P
176770-88-0P 176770-89-1P 176770-90-4P 176770-91-5P 176770-92-6P
176770-93-7P 176770-94-8P 176770-95-9P 176770-96-0P 176770-97-1P
176770-98-2P 176770-99-3P 176771-00-9P 176771-01-0P
176771-02-1P 176771-03-2P 176771-05-4P 176771-06-5P
176771-07-6P 176771-08-7P 176771-09-8P 176771-10-1P 176771-11-2P
176771-13-4P 176771-14-5P 176771-15-6P 176771-16-7P 176771-17-8P
176771-18-9P 176771-19-0P 176771-20-3P 176771-21-4P 176771-22-5P
176771-23-6P 176896-13-2P 177568-58-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of durable printing plates by **electrophotog.**)

IT 25766-25-0 155161-49-2 176771-26-9 176771-27-0 176771-28-1
176771-29-2 176771-31-6 176771-32-7 176771-34-9 176771-35-0
176771-36-1 176771-37-2 176771-38-3 177367-34-9
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of durable printing plates by **electrophotog.**)

IT 91105-71-4, Surflon S-382 144070-79-1 162127-42-6, X-22-167B
163916-20-9 163916-24-3 163916-27-6 176771-25-8 176771-39-4
176771-40-7 176896-14-3
RL: TEM (Technical or engineered material use); USES (Uses)
(release; prepn. of durable printing plates by **electrophotog.**)

IT 150624-89-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(star; prepn. of durable printing plates by **electrophotog.**)

AN 125:22364 CA
TI Preparation of durable printing plates by **electrophotography**
IN Kato, Eiichi; Momota, Atsushi; Ooishi, Hiroyuki
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 82 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08069135	A2	19960312	JP 1995-154934	19950621

			JP 1994-160779	A	19940621
US 5589308	A	19961231	US 1995-492701		19950620
			JP 1994-160779	A	19940621

L35 ANSWER 24 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

TI Apparatus and method for preparation of printing plate by **electrophotographic** process

AB A method for prepn. of a printing plate by an **electrophotog.** process comprises forming a **toner** image on an **electrophotog.** light-sensitive element by an **electrophotog.** process, providing a peelable transfer layer mainly contg. a resin capable of being removed upon a chem. reaction treatment on the **toner** image, transferring the **toner** image together with the transfer layer from the light-sensitive element to a receiving material having a surface capable of providing. . . the non-image area by the chem. reaction treatment. According to the method, good duplicated images are formed without taking the **electrophotog.** characteristics of transfer layer used into consideration. The transfer layer is excellent in transferability and can be achieved. A conventional **electrophotog.** light-sensitive element can be utilized by applying a compd. for imparting the desired releasability to the surface thereof. An app.. . .

ST printing plate prepn **electrophotog** process

IT Rubber, silicone, uses
RL: DEV (Device component use); USES (Uses)
(surface active agent on **electrophotog.** light-sensitive element comprising)

IT **Electrophotography**
(app., method for prepn. of printing plate by **electrophotog.** process and app. for use therein)

IT Siloxanes and Silicones, uses
RL: DEV (Device component use); USES (Uses)
(carboxy-contg., surface active agent on **electrophotog.** light-sensitive element comprising)

IT Siloxanes and Silicones, uses
RL: DEV (Device component use); USES (Uses)
(di-Me, 3-hydroxypropyl Me, ethoxylated, surface active agent on **electrophotog.** light-sensitive element comprising)

IT Siloxanes and Silicones, uses
RL: DEV (Device component use); USES (Uses)
(di-Me, carboxy-terminated, surface active agent on **electrophotog.** light-sensitive element comprising)

IT Siloxanes and Silicones, uses
RL: DEV (Device component use); USES (Uses)
(di-Me, hydroxy-terminated, surface active agent on **electrophotog.** light-sensitive element comprising)

IT Lithographic plates
(offset, method for prepn. of printing plate by **electrophotog** . process and app. for use therein)

IT 80-62-6DP, polymer with fluoroalkyl-Et methacrylate and **glycidyl** methacrylate 97-63-2DP, polymer with fluoroalkyl-Et methacrylate and **glycidyl** methacrylate 106-91-2DP, polymer with fluoroalkyl-Et methacrylate and (M)ethyl methacrylate 123109-43-3P 144541-84-4P 150624-67-2P 150625-01-7P 150625-03-9P 150625-22-2P 150642-22-1P 150642-24-3P 155292-83-4P 155292-86-7P 155292-87-8P 155292-88-9P 155292-90-3P 155292-98-1P 157966-19-3P 161552-47-2P 161552-54-1P 172835-14-2DP, polymer with fluoroalkyl-Et methacrylate 172835-66-4P 172835-67-5P 172835-68-6P 172835-69-7P 172835-70-0P 172835-71-1P 172835-72-2P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(binder resins comprising)

IT 42557-10-8, KF 96L2.0 58258-12-1 82030-84-0, Surflon S 141

162127-42-6, X 22-167B 163916-21-0 172835-87-9D, trimethylsilyl-terminated
RL: DEV (Device component use); USES (Uses)
(surface active agent on **electrophotog**. light-sensitive element comprising)

IT 172835-15-3P 172835-17-5P 172835-18-6P 172835-19-7P 172835-20-0P
172835-21-1P 172835-22-2P 172835-23-3P 172835-24-4P
172835-25-5P 172835-27-7P 172835-29-9P 172835-31-3P 172835-32-4P
172835-33-5P 172835-34-6P 172835-35-7P 172835-36-8P 172835-37-9P
172835-38-0P **172835-39-1P** 172835-40-4P 172835-42-6P
172835-43-7P 172835-44-8P 172835-45-9P 172835-46-0P 172835-47-1P
172835-49-3P
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(thermoplastic resin grain for transfer layer comprising)

AN 124:101890 CA
TI Apparatus and method for preparation of printing plate by **electrophotographic** process
IN Kato, Eiichi
PA Fuji Photo Film Co., Ltd., Japan
SO Eur. Pat. Appl., 147 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 679957	A1	19951102	EP 1995-106212	19950425
EP 679957	B1	20000315		
R: DE, GB				
			JP 1994-110198 A	19940427
US 5561014	A	19961001	US 1995-426740	19950421
			JP 1994-110198 A	19940427
JP 08015925	A2	19960119	JP 1995-125592	19950427
			JP 1994-110198 A	19940427

L35 ANSWER 25 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Magnetic **toner** and image formation
AB The title **toner** contains a magnetic substance and a graft copolymer prepd. by treatment of R1(SiMe2O)nSiMe2R2 (R1 = OH, NH2, CO2H, **epoxy**, methacryl, SH, phenol; R2 = OH, NH2, CO2H, **epoxy**, methacryl, SH, phenol, Me; n = 3-300) of no. av. mol. wt. (Mn) 500-20,000 with a vinyl polymer having functional. . . the step of developing electrostatic latent images formed on a latent image-holding substance by forming a thin layer of the **toner** on a **toner**-carrying substance. The **toner** is useful in developing process including the thin layer formation and provides high-d. images without fog in continuously repeated copying.. . . and acrylic acid were copolymd. in the presence of styrene-Me methacrylate-Bu methacrylate copolymer, and the resulting polymer was treated with **glycidyl**-terminated di-Me siloxane I (Mn 1000) to give a graft copolymer. The graft copolymer, magnetite, salicylic acid-Cr complex, and polypropylene were kneaded, pulverized, and mixed with SiO2 to give a magnetic **toner**.
ST **electrophotog toner** magnetic graft siloxane; polyvinyl grafted siloxane **electrophotog toner**
IT Magnetic substances
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. toners contg. vinyl polymer-grafted siloxanes and magnetic substances)
IT Siloxanes and Silicones, properties

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(di-Me, acrylic, graft, **electrophotog**. toners contg. vinyl polymer-grafted siloxanes and magnetic substances)

IT **Electrophotographic** developers
(toners, **electrophotog**. toners contg. vinyl polymer-grafted siloxanes and magnetic substances)

IT 26634-89-9DP, Butyl methacrylate-methyl methacrylate-styrene copolymer, reaction products with **glycidyl**- or hydroxy-terminated siloxanes 31900-57-9DP, Dimethylsilanediol homopolymer, **glycidyl**- or hydroxy-terminated, reaction products with carboxyl- or hydroxy-contg. polymethacrylates **65595-71-3DP**, reaction products with **glycidyl**- or hydroxy-terminated siloxanes 72356-26-4DP, reaction products with **glycidyl**- or hydroxy-terminated siloxanes 161685-56-9DP, reaction products with carboxyl- or hydroxy-contg. polymethacrylates 161685-57-0DP, reaction products with carboxyl- or hydroxy-contg. polymethacrylates
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog**. toners contg. vinyl polymer-grafted siloxanes and magnetic substances)

IT 1309-38-2, Magnetite (fe3o4), properties
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. toners contg. vinyl polymer-grafted siloxanes and magnetic substances)

AN 122:201216 CA
TI Magnetic **toner** and image formation
IN Yamane, Kenji; Akimoto, Kunio; Endo, Isao; Kitahara, Kenichi
PA Konishiroku Photo Ind, Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06301235	A2	19941028	JP 1993-84707	19930412
				JP 1993-84707	19930412

L35 ANSWER 26 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text

AB . . . copolymer of a terminal-reactive silicone oil with no. av. mol. wt. (Mn) 500-20,000 R1(SiMe2O)nSiMe2R2 [I; R1 = OH, NH2, CO2H, **epoxy**, methacryl, SH, phenol, these groups may link via C1-6 alkylene chains; R2 = same as R1 (both terminal-reactive) or Me. . . . styrene-Me methacrylate-Bu methacrylate copolymer to give a polymer having 2 mol. wt. peaks. A graft copolymer of I (R1 = **epoxy**, R2 = Me; Mn 1000) with the polymer, carbon black, and waxes were kneaded, pulverized, and mixed with SiO2 to give a **toner**, which was mixed with a ferrite carrier to give a developer.

ST **toner** silicone oil graft copolymer; vinyl polymer silicone graft copolymer; binder resin **toner electrophotog**

IT Siloxanes and Silicones, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. **toner** contg.-graft copolymer of silicone and vinyl compds.)

IT **Electrophotographic** developers
(toners, **electrophotog**. **toner** contg.-graft copolymer of silicone and vinyl compds.)

IT **161717-05-1P** 161717-06-2P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)
(**electrophotog. toner** contg.-graft copolymer of silicone and vinyl compds.)

AN 122:201188 CA
TI Toners for developing electrostatic images
IN Akimoto, Kunio; Endo, Isao; Yamane, Kenji; Kitahara, Kenichi
PA Konishiroku Photo Ind, Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 06289650	A2	19941018	JP 1993-75830	19930401
			JP 1993-75830	19930401

L35 ANSWER 27 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI **Electrophotographic toner** containing **glycidyl**-crosslinked resin binder and its manufacture
AB The **toner** contains a coloring agent, a charge-controlling agent, and a binder comprising (A) a CO2H-contg. vinyl resin with no. av. mol. wt. 1000-20,000, acid value 5.0-100, and glass transition temp. 40-75° and a **glycidyl** compd. with **glycidyl** content 0.05-1.0 equiv for 1 equiv CO2H group in the resin. The **toner** is manufd. by melt kneading a coloring agent, a charge-controlling agent, and a binder to crosslink a CO2H-contg. vinyl resin and a **glycidyl** compd. as the binder and crushing. The **toner** showed high resoln. and good durability.
ST **electrophotog toner glycidyl** crosslinked resin binder
IT **Epoxy** resins, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(binder; **electrophotog. toner** contg. **glycidyl**-crosslinked vinyl resin binder with high resoln.)
IT **Electrophotographic** developers
(toners, **electrophotog. toner** contg. **glycidyl**-crosslinked vinyl resin binder with high resoln.)
IT **55537-10-5P** 161044-15-1P 161044-16-2P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder; **electrophotog. toner** contg. **glycidyl**-crosslinked vinyl resin binder with high resoln.)
IT 79-06-1D, Acrylamide, **epoxy** resins 79-10-7D, Acrylic acid, **epoxy** resins 79-39-0D, Methacrylamide, **epoxy** resins 79-41-4D, Methacrylic acid, **epoxy** resins 107-13-1D, Acrylonitrile, **epoxy** resins 108-31-6D, Maleic anhydride, **epoxy** resins 110-16-7D, Maleic acid, **epoxy** resins 110-17-8D, Fumaric acid, **epoxy** resins 621-82-9D, Cinnamic acid, **epoxy** resins
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog. toner** contg. **glycidyl** -crosslinked vinyl resin binder with high resoln.)
AN 122:147205 CA
TI **Electrophotographic toner** containing **glycidyl**-crosslinked resin binder and its manufacture
IN Hata, Masaaki; Uchama, Kenji; Okada, Yasuo
PA Mitsui Toatsu Chemicals, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06222612	A2	19940812	JP 1993-8980	19930122
				JP 1993-8980	19930122

L35 ANSWER 28 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI **Electrophotographic** manufacture of lithographic plate
AB The title manuf. comprises the steps of forming an **electrophotog.** **toner** image on a strippable transfer layer based on a chem. removable thermoplastic resin (e.g., by dissoln. with an aq. alkali soln.) and formed on the releasable surface of an **electrophotog.** photoreceptor, thermally transfer the **toner** image along with the transfer layer to a receptor whose surface is capable of becoming hydrophilic for lithog. printing, and. . . . of the receptor support such as an Al support and save the thermoplastic resin of the transfer layer at the **toner** image area as a printing image of a lithog. plate). The invention, also suited for laser scanning exposure, provides durable. . .
ST lithog plate **electrophotog** manuf; **electrophotog** transfer layer lithog plate; photoreceptor **electrophotog** thermal transfer layer
IT Lithographic plates
(**electrophotog.** manuf. of, using releasable photoreceptor and strippable transfer layer)
IT Fluoropolymers
Siloxanes and Silicones, uses
RL: PREP (Preparation)
(latex, prepn. and use of, as releasable component for **electrophotog.** photoreceptor)
IT 26936-30-1, Methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate copolymer
RL: USES (Uses)
(binders, **electrophotog.** photoreceptor with overcoating layer contg.)
IT 25086-15-1, Methacrylic acid-methyl methacrylate copolymer 25133-97-5, Ethyl acrylate-methacrylic acid-methyl methacrylate copolymer 40045-03-2, Ethyl methacrylate-**glycidyl** methacrylate-2-hydroxyethyl methacrylate copolymer 155247-40-8 155247-42-0 157859-84-2 157859-86-4 157859-87-5 157859-88-6 157859-90-0 157859-91-1
RL: USES (Uses)
(binders, **electrophotog.** photosensitive layer contg., for lithog. plate)
IT 94-36-0, Benzoyl peroxide, uses 97-90-5 110-63-4, 1,4-Butanediol, uses 124-09-4, 1,6-Hexanediamine, uses 83512-67-8, Burnock D 500
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent, **electrophotog.** photoconductive layer contg., for releasable transfer layer)
IT 2530-83-8
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent, **electrophotog.** photoreceptor with overcoating layer from compn. contg.)
IT 57-55-6, 1,2-Propanediol, uses 85-44-9, 1,3-Isobenzofurandione 111-33-1 526-95-4, Gluconic acid 926-63-6, N, N-Dimethylpropylamine 2224-15-9, Ethylenediglycidyl ether 2550-02-9, Propyltriethoxysilane 27431-62-5 42055-15-2, 3-(N-Methylamino)propanol
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent, **electrophotog.** photosensitive layer contg., for lithog. plate)
IT 4074-90-2
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agent, releasable **electrophotog.** photoconductive layer contg.)

IT 77810-16-3 157860-16-7 157860-20-3 157860-21-4 157860-62-3
RL: USES (Uses)
(**electrophotog**. photoreceptor having strippable transfer layer contg.)
IT 25189-12-2 26338-06-7, Ethyl acrylate-methacrylic acid-methyl acrylate copolymer 26589-39-9, Methacrylic acid-methyl acrylate copolymer
26936-24-3 27155-22-2 32517-13-8 59213-43-3 65697-21-4
79042-18-5 129636-54-0 140143-08-4 157859-72-8 157859-73-9
157859-74-0 157859-75-1 157859-76-2 157859-77-3 157859-78-4
157859-79-5 157859-80-8 157859-81-9 157859-82-0 157859-92-2
157859-93-3 157859-94-4 157859-95-5 157859-96-6 157859-98-8
157859-99-9 157860-01-0 157860-02-1 157860-04-3 157860-05-4
157860-06-5 157860-08-7 157860-10-1 157860-11-2 157860-12-3
157860-14-5 157860-16-7 157860-18-9 157860-23-6 157860-24-7
157860-25-8 157860-26-9 157860-28-1 157860-30-5 157860-32-7
157860-34-9 157860-36-1 157860-37-2 157860-39-4 157860-40-7
157860-41-8 157860-42-9 157860-43-0 157860-44-1 157860-45-2
157860-46-3 157860-47-4 157860-48-5 157860-49-6 157860-51-0
157860-52-1 157860-53-2 157860-54-3 157860-56-5 157860-58-7
157860-60-1 157860-63-4 157860-65-6 157860-67-8 157960-12-8
RL: USES (Uses)
(**electrophotog**. photoreceptor having strippable transfer layer of)
IT 150642-14-1P 155293-00-8P 156658-66-1P 157858-82-7P 157858-83-8P
157858-84-9P 157858-85-0P 157858-86-1P 157858-87-2P 157858-88-3P
157858-89-4P 157858-90-7P 157858-91-8P 157858-92-9P 157858-93-0P
157858-94-1P 157858-95-2P 157858-96-3P 157858-97-4P 157858-98-5P
157858-99-6P 157859-00-2P 157859-01-3P
RL: PREP (Preparation)
(latex, prepn. and use of, as releasable component for **electrophotog**. photoreceptor)
IT **157859-02-4P** 157859-03-5P 157859-04-6P 157859-05-7P
157859-06-8P 157859-07-9P 157859-08-0P 157859-09-1P 157859-10-4P
157859-11-5P 157859-13-7P 157859-14-8P 157859-15-9P 157859-16-0P
157859-17-1P 157859-18-2P 157859-19-3P 157859-21-7P 157859-23-9P
157859-25-1P 157859-27-3P 157859-28-4P 157859-29-5P 157859-30-8P
157859-32-0P 157859-34-2P 157859-36-4P 157859-38-6P 157859-39-7P
157859-41-1P 157859-43-3P 157859-45-5P 157859-46-6P 157859-48-8P
157859-50-2P 157859-52-4P 157859-55-7P 157859-57-9P 157859-59-1P
157859-61-5P 157859-62-6P 157859-64-8P 157859-67-1P 157859-69-3P
157859-71-7P
RL: PREP (Preparation)
(latex, prepn. and use of, as thermoplastic resin grains for strippable transfer layer)
IT 79-41-4DP, 2-perfluoroalkylethyl ester, copolymers with 2-hydroxyethyl methacrylate, Et methacrylate, and **glycidyl** methacrylate
123109-43-3P 144541-84-4P 150624-67-2P 150624-77-4P 150625-01-7P
150625-03-9P 150625-19-7P 150625-22-2P 150642-22-1P 150642-24-3P
155292-83-4P 155292-84-5P 155292-85-6P 155292-86-7P 155292-87-8P
155292-88-9P 155292-90-3P 155292-92-5P 155292-93-6P 155292-94-7P
155292-96-9P 155292-98-1P 155293-26-8P 157966-19-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, as releasable component for **electrophotog**. photoreceptor, for lithog. plate)
IT 97-63-2DP, Ethyl methacrylate, block copolymers with **glycidyl** methacrylate and 2-perfluoroalkylethyl methacrylate 106-91-2DP, block copolymers with Et methacrylate and 2-perfluoroalkylethyl methacrylate 868-77-9DP, graft copolymers with 2-perfluoroalkylethyl methacrylate
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, for releasable **electrophotog**. photoreceptor surface, for lithog. plate)
IT 150624-89-8

RL: USES (Uses)
(star-block, as releasable component for **electrophotog.** photoreceptor, for lithog. plate)

AN 121:191363 CA
TI **Electrophotographic** manufacture of lithographic plate
IN Kato, Eiichi; Ohsawa, Sadao; Kasai, Seishi
PA Fuji Photo Film Co., Ltd., Japan
SO PCT Int. Appl., 259 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI WO 9316418	A1	19930819	WO 1993-JP179		19930212
W: DE, JP, US					
			JP 1992-57269	A	19920212
			JP 1992-116794	A	19920410
			JP 1992-161650	A	19920529
			JP 1992-169880	A	19920605
			JP 1992-194712	A	19920630
			JP 1992-201811	A	19920707
DE 4390508	T	19940113	DE 1993-4390508		19930212
			JP 1992-57269	A	19920212
			JP 1992-116794	A	19920410
			JP 1992-161650	A	19920529
			JP 1992-169880	A	19920605
			JP 1992-194712	A	19920630
			JP 1992-201811	A	19920707
			WO 1993-JP179	W	19930212
JP 3620655	B2	20050216	JP 1993-513950		19930212
			JP 1992-57269	A	19920212
			JP 1992-116794	A	19920410
			JP 1992-161650	A	19920529
			JP 1992-169880	A	19920605
			JP 1992-194712	A	19920630
			JP 1992-201811	A	19920707
			WO 1993-JP179	W	19930212
US 5714289	A	19980203	US 1995-457604		19950601
			JP 1992-57269	A	19920212
			JP 1992-116794	A	19920410
			JP 1992-161650	A	19920529
			JP 1992-169880	A	19920605
			JP 1992-194712	A	19920630
			JP 1992-201811	A	19920707
			US 1993-133087	B1	19931007

L35 ANSWER 29 OF 44 CA COPYRIGHT 2005 ACS on STN
Full Text
TI Color **electrophotographic** copying method
AB In the title method using an app. having an **electrophotog.** photoreceptor, a means to form ≥1 color **toner** images on a transfer layer of the photoreceptor by **electrophotog.**, and a means to heat-transfer the images together with the transfer layer onto an image receptor sheet, the peelable transfer. . .
ST **electrophotog** color copier photoreceptor
IT **Electrophotographic** photoconductors and photoreceptors
(peelable transfer layer for, contg. silicon and/or fluorine-contg. polymer)
IT Polycarbonates, uses
Polyethers, uses
Rubber, butadiene-styrene, uses

RL: USES (Uses)
(peelable transfer layer from, for **electrophotog.** photoreceptor)

IT Vinyl acetal polymers
RL: USES (Uses)
(butyrals, peelable transfer layer from, for **electrophotog.** photoreceptor)

IT Siloxanes and Silicones, uses
RL: USES (Uses)
(di-Me, **electrophotog.** photoreceptor surface layer contg.)

IT 25609-89-6, Vinyl acetate-crotonic acid copolymer
RL: USES (Uses)
(cellidor BSP-contg., transfer layer for **electrophotog.** photoreceptor contg.)

IT 9003-09-2, Polyvinylmethylether 9003-20-7, Polyvinyl acetate 9003-55-8 9004-48-2, Cellidor CP 9011-87-4, Methyl methacrylate-methyl acrylate copolymer 9015-12-7, Cellidor BSP 24937-78-8, Ethylene-vinylacetate copolymer 25068-26-2, Poly(4-methyl-1-pentene) 25213-29-0, Styrene-vinylacetate copolymer 25609-74-9, Poly propylmethacrylate 27043-73-8 27055-32-9, 1,10-Decanediol-terephthalic acid copolymer 27516-89-8, 1,6-Hexanediol-succinic acid copolymer 59199-92-7 66837-11-4, Poly(pentamethylene carbonate) 105726-59-8, 1,10-Decanediol-isophthalic acid copolymer 156658-58-1
RL: USES (Uses)
(peelable transfer layer from, for **electrophotog.** photoreceptor)

IT 79-41-4DP, Methacrylic acid, ester, fluoroalkyl, polymer with methylacrylate and **glycidyl** methacrylate 80-62-6DP, Methylmethacrylate, polymer with fluoroalkyl methacrylate and **glycidyl** methacrylate 106-91-2DP, **Glycidyl** methacrylate, polymer with fluoroalkyl methacrylate and methylmethacrylate 144541-84-4P 150625-01-7P 150625-03-9P 150625-22-2P 150642-22-1P 150642-24-3P 155292-92-5P 155292-93-6P 155292-94-7P 155292-96-9P 155292-98-1P 155293-26-8P 156658-62-7P 156658-63-8P
RL: PREP (Preparation)
(prepn. of, **electrophotog.** photoreceptor contg.)

IT 80-62-6DP, Methylmethacrylate, polymer with siloxanes 150624-67-2P 150624-77-4P 155292-83-4P 155292-84-5P 155292-85-6P 155292-86-7P 155292-87-8P 155292-88-9P 155292-90-3P
RL: PREP (Preparation)
(prepn. of, **electrophotog.** photoreceptor surface contg.)

IT 2274-11-5D, Ethylene glycol diacrylate, graft copolymer with siloxane and ethylene glycol diacrylate 150642-12-9D, graft copolymer with siloxane and ethylene glycol diacrylate 150642-14-1 **150773-23-2 150773-24-3 150773-26-5 150773-28-7 150773-31-2 150773-32-3 150773-37-8** 151038-20-9 151038-21-0 151078-64-7 151115-20-7 156658-64-9 156658-65-0 156658-66-1 156885-24-4 **156885-25-5 156885-26-6 156885-27-7** 156919-89-0 156919-90-3 157047-74-0
RL: USES (Uses)
(resent particles from, for transfer layer for **electrophotog.** photoreceptor)

IT 9003-55-8
RL: USES (Uses)
(rubber, peelable transfer layer from, for **electrophotog.** photoreceptor)

AN 121:121637 CA
TI Color **electrophotographic** copying method
IN Kato, Eiichi; Oosawa, Sadao
PA Fuji Photo Film Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 57 pp.

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     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
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PI   JP 05181325          A2    19930723    JP 1991-358232           19911227
     DE 4294542           T     19941201    DE 1992-4294542          19921225
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
     US 6004716           A     19991221    US 1994-256185           19940627
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
PATENT FAMILY INFORMATION:
FAN  120:334854
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
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PI   JP 05181324          A2    19930723    JP 1991-358228           19911227
     JP 3180967           B2    20010703
     DE 4294542           T     19941201    DE 1992-4294542          19921225
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225
     US 6004716           A     19991221    US 1994-256185           19940627
                                            JP 1991-358228       A   19911227
                                            JP 1991-358232       A   19911227
                                            WO 1992-JP1715       W   19921225


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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                55.13     139.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                               -10.20     -20.40

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

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